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**(54) Primers for synthesizing full-length cDNA and their use**

(57) Primers for synthesizing full-length cDNAs and their use are provided.

5602 cDNA encoding a human protein has been isolated and nucleotide sequences of 5'-, and 3'-ends of the cDNA have been determined. Furthermore, prim-

ers for synthesizing the full-length cDNA have been provided to clarify the function of the protein encoded by the cDNA. The full-length cDNA of the present invention containing the translation start site provides information useful for analyzing the functions of the protein.

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**Description**FIELD OF THE INVENTION

5 **[0001]** The present invention relates to a polynucleotide encoding a novel protein, a protein encoded by the polynucleotide, and new uses of these.

BACKGROUND OF THE INVENTION

10 **[0002]** Currently, the sequencing projects, the determination and analysis of the genomic DNA of various living organisms have been in progress all over the world. The whole genomic sequences of more than 10 species of prokaryotes, a lower eukaryote, yeast, and a multicellular eukaryote, *C. elegans* are already determined. As to human genome, which is supposed to be composed of three thousand million base pairs, the world wide cooperative projects have been under way to analyze it, and the whole structure is predicted to be determined by the years 2002-2003. The aim of the determination of genomic sequence is to reveal the functions of all genes and their regulation and to understand living organisms as a network of interactions between genes, proteins, cells or individuals through deducing the information in a genome, which is a blueprint of the highly complicated living organisms. To understand living organisms by utilizing the genomic information from various species is not only important as an academic subject, but also socially significant from the viewpoint of industrial application.

20 **[0003]** However, determination of genomic sequences itself cannot identify the functions of all genes. For example, as for yeast, only the function of approximately half of the 6000 genes, which is predicted based on the genomic sequence, was able to be deduced. As for human, the number of the genes is predicted to be approximately one hundred thousand. Therefore, it is desirable to establish "a high throughput analysis system of the gene functions" which allows us to identify rapidly and efficiently the functions of vast amounts of the genes obtained by the genomic sequencing.

25 **[0004]** Many genes in the eukaryotic genome are split by introns into multiple exons. Thus, it is difficult to predict correctly the structure of encoded protein solely based on genomic information. In contrast, cDNA, which is produced from mRNA that lacks introns, encodes a protein as a single continuous amino acid sequence and allows us to identify the primary structure of the protein easily. In human cDNA research, to date, more than one million ESTs (Expression Sequence Tags) are publicly available, and the ESTs presumably cover not less than 80% of all human genes.

30 **[0005]** The information of ESTs is utilized for analyzing the structure of human genome, or for predicting the exon-regions of genomic sequences or their expression profile. However, many human ESTs have been derived from proximal regions to the 3'-end of cDNA, and information around the 5'-end of mRNA is extremely little. Among these human cDNAs, the number of the corresponding mRNAs whose encoding protein sequences are deduced is approximately 7000, and further, the number of full-length therein is only 5500. Thus, even including cDNA registered as EST, the percentage of human cDNA obtained so far is estimated to be 10-15% of all the genes.

35 **[0006]** It is possible to identify the transcription start site of mRNA on the genomic sequence based on the 5'-end sequence of a full-length cDNA, and to analyze factors involved in the stability of mRNA that is contained in the cDNA, or in its regulation of expression at the translation stage. Also, since a full-length cDNA contains ATG, the translation start site, in the 5'-region, it can be translated into a protein in a correct frame. Therefore, it is possible to produce a large amount of the protein encoded by the cDNA or to analyze biological activity of the expressed protein by utilizing an appropriate expression system. Thus, analysis of a full-length cDNA provides valuable information which complements the information from genome sequencing. Also, full-length cDNA clones that can be expressed are extremely valuable in empirical analysis of gene function and in industrial application.

40 **[0007]** Therefore, if a novel human full-length cDNA is isolated, it can be used for developing medicines for diseases in which the gene is involved. The protein encoded by the gene can be used as a drug by itself. Thus, it has great significance to obtain a full-length cDNA encoding a novel human protein.

45 **[0008]** In particular, human secretory proteins or membrane proteins would be useful by itself as a medicine like tissue plasminogen activator (TPA), or as a target of medicines like membrane receptors. In addition, genes for signal transduction-associated proteins (protein kinases, etc.), glycoprotein-associated proteins, transcription-associated proteins, etc. are genes whose relationships to human diseases have been elucidated. Moreover, genes for disease-associated proteins form a gene group rich in genes whose relationships to human diseases have been elucidated.

50 **[0009]** Therefore, it has great significance to isolate novel full-length cDNA clones of human, only few of which have been isolated. Especially, isolation of a novel cDNA clone encoding a secretory protein or membrane protein is desired since the protein itself would be useful as a medicine, and also the clones potentially include a gene associated with diseases. In addition, genes encoding proteins that are associated with signal transduction, glycoprotein, transcription, or diseases are expected to be useful as target molecules for therapy, or as medicines themselves. These genes form a gene group predicted to be strongly associated with diseases. Thus, identification of the full-length cDNA clones

encoding those proteins has great significance.

# SUMMARY OF THE INVENTION

**[0010]** An objective of the present invention is to provide a polynucleotide encoding a novel protein, a protein encoded by said polynucleotide, and novel usages of these.

**[0011]** The inventors have developed a method for efficiently cloning a human full-length cDNA that is predicted by the ATGpr etc. to be a full-length cDNA clone, from a full-length-enriched cDNA library that is synthesized by the oligo-capping method. Then, the inventors determined the nucleotide sequence of the obtained cDNA clones from both 5'- and 3'- ends.

**[0012]** Furthermore, the inventors analyzed the obtained clones by the BLAST search of the databases, SwissProt ([http://www.ebi.ac.uk/ebit\\_docs/SwissProt\\_db/swisshome.html](http://www.ebi.ac.uk/ebit_docs/SwissProt_db/swisshome.html)), GenBank (<http://www.ncbi.nlm.nih.gov/web/GenBank>), and UniGene (Human) (<http://www.ncbi.nlm.nih.gov/UniGene>).

**[0013]** The full-length cDNA clones of the present invention have high fullness ratio since these were obtained by the combination of (1) construction of a full-length-enriched cDNA library that is synthesized by the oligo-capping method, and (2) a system in which the full-length ratio is evaluated from the nucleotide sequence of the 5'-end (selection based on the ATGpr, previously removed complete sequences to ESTs). However, the primer of the present invention enables to obtain full-length cDNA easily without any specialized methods as in the described method.

Homology analysis in which the analysis is carried out against a not-full-length cDNA fragment to postulate the function of a protein encoded by said fragment, is being commonly performed.

However, since such analysis is based on the information of the fragment, it is not clear as to whether this fragment corresponds to a part that is functionally important in the protein. In other words, the reliability of the homology analysis based on the information of a fragment is doubtful, as information related to the structure of the whole protein is not available. However, the homology analysis of the present invention is conducted based on the information of a full-length cDNA comprising the whole coding region of the cDNA, and therefore, the homology of various portions of the protein can be analyzed. Hence, the reliability of the homology analysis has been dramatically improved in the present invention.

**[0014]** The inventors completed the invention by finding that it is possible to synthesize a novel full-length cDNA by using the combination of a primer that is designed based on the nucleotide sequence of the 5'-ends of the selected full-length cDNA clones and any of an oligo-dT primer or a 3'-primer that is designed based on the nucleotide sequence of the 3'-ends of the selected clones.

**[0015]** Thus, the present invention relates to primers described below, a method for synthesizing a polynucleotide using the primers, and polynucleotides obtained by the method.

**[0016]** First, the present invention relates to

(1) use of an oligonucleotide as a primer for synthesizing the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, or the complementary strand thereof, wherein said oligonucleotide is complementary to said polynucleotide or the complementary strand thereof and comprises at least 15 nucleotides;

(2) a primer set for synthesizing polynucleotides, the primer set comprising an oligo-dT primer and an oligonucleotide complementary to the complementary strand of the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, wherein said oligonucleotide comprises at least 15 nucleotides; and

(3) a primer set for synthesizing polynucleotides, the primer set comprising a combination of an oligonucleotide comprising a nucleotide sequence complementary to the complementary strand of the polynucleotide comprising a 5'-end nucleotide sequence and an oligonucleotide comprising a nucleotide sequence complementary to the polynucleotide comprising a 3'-end nucleotide sequence, wherein said oligonucleotides comprise at least 15 nucleotides and wherein said combination of 5'-end nucleotide sequence / 3'-end nucleotide sequence is selected from the combinations of 5'-end nucleotide sequence / 3'-end nucleotide sequence set forth in the SEQ ID NOs in Tables 1 and 2.

**[0017]** Tables 1 and 2 shows names of clones obtained in the examples described later, comprising the polynucleotide of the present invention (Table 1: 5547 clones, Table 2: 54 clones), names of nucleotide sequences at the 5'-end and 3'-end of the full-length cDNA, and their corresponding SEQ ID NOs. A blank indicates that the 3'-end sequence corresponding to the 5'-end sequence has not been determined for the same clone.

**[0018]** The SEQ ID NO of a 5'-end sequence is shown on the right side of the name of the 5'-end sequence, and the SEQ ID NO of a 3'-end sequence is shown on the right side of the name of the 3'-end sequence.

Table 1

name of clone	name of 5'-end sequence	SEQ ID of 5'-end sequence	name of 3'-end sequence	SEQ ID of 3'-end sequence
HEMBA1000005	F-HEMBA1000005	1	R-HEMBA1000005	5548
HEMBA1000012	F-HEMBA1000012	2		
HEMBA1000020	F-HEMBA1000020	3		
HEMBA1000030	F-HEMBA1000030	4	R-HEMBA1000030	5549
HEMBA1000042	F-HEMBA1000042	5	R-HEMBA1000042	5550
HEMBA1000046	F-HEMBA1000046	6	R-HEMBA1000046	5551
HEMBA1000050	F-HEMBA1000050	7	R-HEMBA1000050	5552
HEMBA1000076	F-HEMBA1000076	8	R-HEMBA1000076	5553
HEMBA1000111	F-HEMBA1000111	9	R-HEMBA1000111	5554
HEMBA1000129	F-HEMBA1000129	10	R-HEMBA1000129	5555
HEMBA1000141	F-HEMBA1000141	11	R-HEMBA1000141	5556
HEMBA1000150	F-HEMBA1000150	12	R-HEMBA1000150	5557
HEMBA1000156	F-HEMBA1000156	13	R-nnnnnnnnnnnnn	5558
HEMBA1000158	F-HEMBA1000158	14	R-HEMBA1000158	5559
HEMBA1000168	F-HEMBA1000168	15	R-nnnnnnnnnnnnn	5560

	HEMBA1000180	F-HEMBA1000180	16	R-HEMBA1000180	5561
	HEMBA1000185	F-HEMBA1000185	17	R-HEMBA1000185	5562
	HEMBA1000193	F-HEMBA1000193	18	R-HEMBA1000193	5563
5	HEMBA1000201	F-HEMBA1000201	19	R-HEMBA1000201	5564
	HEMBA1000213	F-HEMBA1000213	20	R-HEMBA1000213	5565
	HEMBA1000216	F-HEMBA1000216	21	R-HEMBA1000216	5566
	HEMBA1000227	F-HEMBA1000227	22	R-nnnnnnnnnnnnn	5567
10	HEMBA1000231	F-HEMBA1000231	23	R-HEMBA1000231	5568
	HEMBA1000243	F-HEMBA1000243	24	R-HEMBA1000243	5569
	HEMBA1000244	F-HEMBA1000244	25	R-HEMBA1000244	5570
	HEMBA1000251	F-HEMBA1000251	26	R-HEMBA1000251	5571
15	HEMBA1000264	F-HEMBA1000264	27	R-HEMBA1000264	5572
	HEMBA1000280	F-HEMBA1000280	28	R-nnnnnnnnnnnnn	5573
	HEMBA1000282	F-HEMBA1000282	29	R-HEMBA1000282	5574
	HEMBA1000288	F-HEMBA1000288	30	R-HEMBA1000288	5575
20	HEMBA1000290	F-HEMBA1000290	31	R-HEMBA1000290	5576
	HEMBA1000302	F-HEMBA1000302	32	R-HEMBA1000302	5577
	HEMBA1000303	F-HEMBA1000303	33	R-nnnnnnnnnnnnn	5578
	HEMBA1000304	F-HEMBA1000304	34	R-nnnnnnnnnnnnn	5579
	HEMBA1000307	F-HEMBA1000307	35	R-HEMBA1000307	5580
25	HEMBA1000327	F-HEMBA1000327	36		
	HEMBA1000333	F-HEMBA1000333	37	R-nnnnnnnnnnnnn	5581
	HEMBA1000338	F-HEMBA1000338	38	R-HEMBA1000338	5582
	HEMBA1000351	F-HEMBA1000351	39	R-HEMBA1000351	5583
30	HEMBA1000355	F-HEMBA1000355	40	R-HEMBA1000355	5584
	HEMBA1000356	F-HEMBA1000356	41		
	HEMBA1000357	F-HEMBA1000357	42	R-HEMBA1000357	5585
	HEMBA1000366	F-HEMBA1000366	43	R-HEMBA1000366	5586
35	HEMBA1000369	F-HEMBA1000369	44	R-HEMBA1000369	5587
	HEMBA1000376	F-HEMBA1000376	45	R-HEMBA1000376	5588
	HEMBA1000387	F-HEMBA1000387	46	R-HEMBA1000387	5589
	HEMBA1000390	F-HEMBA1000390	47	R-HEMBA1000390	5590
40	HEMBA1000392	F-HEMBA1000392	48	R-HEMBA1000392	5591
	HEMBA1000396	F-HEMBA1000396	49	R-HEMBA1000396	5592
	HEMBA1000411	F-HEMBA1000411	50	R-HEMBA1000411	5593
	HEMBA1000418	F-HEMBA1000418	51	R-HEMBA1000418	5594
45	HEMBA1000422	F-HEMBA1000422	52	R-HEMBA1000422	5595
	HEMBA1000428	F-HEMBA1000428	53	R-HEMBA1000428	5596
	HEMBA1000434	F-HEMBA1000434	54	R-HEMBA1000434	5597
	HEMBA1000442	F-HEMBA1000442	55	R-HEMBA1000442	5598
	HEMBA1000456	F-HEMBA1000456	56	R-HEMBA1000456	5599
50	HEMBA1000459	F-HEMBA1000459	57	R-HEMBA1000459	5600
	HEMBA1000460	F-HEMBA1000460	58	R-HEMBA1000460	5601
	HEMBA1000464	F-HEMBA1000464	59	R-HEMBA1000464	5602
	HEMBA1000469	F-HEMBA1000469	60	R-HEMBA1000469	5603
55	HEMBA1000488	F-HEMBA1000488	61	R-HEMBA1000488	5604

	HEMBA1000490	F-HEMBA1000490	62	R-HEMBA1000490	5605
	HEMBA1000491	F-HEMBA1000491	63	R-HEMBA1000491	5606
	HEMBA1000501	F-HEMBA1000501	64		
5	HEMBA1000504	F-HEMBA1000504	65	R-HEMBA1000504	5607
	HEMBA1000505	F-HEMBA1000505	66	R-HEMBA1000505	5608
	HEMBA1000508	F-HEMBA1000508	67	R-HEMBA1000508	5609
	HEMBA1000518	F-HEMBA1000518	68	R-HEMBA1000518	5610
10	HEMBA1000519	F-HEMBA1000519	69	R-HEMBA1000519	5611
	HEMBA1000520	F-HEMBA1000520	70	R-HEMBA1000520	5612
	HEMBA1000523	F-HEMBA1000523	71	R-HEMBA1000523	5613
	HEMBA1000531	F-HEMBA1000531	72	R-HEMBA1000531	5614
15	HEMBA1000534	F-HEMBA1000534	73		
	HEMBA1000540	F-HEMBA1000540	74	R-HEMBA1000540	5615
	HEMBA1000542	F-HEMBA1000542	75		
	HEMBA1000545	F-HEMBA1000545	76	R-HEMBA1000545	5616
20	HEMBA1000555	F-HEMBA1000555	77	R-aaaaaaaaaaaa	5617
	HEMBA1000557	F-HEMBA1000557	78	R-HEMBA1000557	5618
	HEMBA1000561	F-HEMBA1000561	79	R-HEMBA1000561	5619
	HEMBA1000563	F-HEMBA1000563	80	R-HEMBA1000563	5620
25	HEMBA1000568	F-HEMBA1000568	81	R-HEMBA1000568	5621
	HEMBA1000569	F-HEMBA1000569	82	R-aaaaaaaaaaaa	5622
	HEMBA1000575	F-HEMBA1000575	83	R-HEMBA1000575	5623
	HEMBA1000588	F-HEMBA1000588	84	R-HEMBA1000588	5624
	HEMBA1000591	F-HEMBA1000591	85	R-HEMBA1000591	5625
30	HEMBA1000592	F-HEMBA1000592	86	R-HEMBA1000592	5626
	HEMBA1000594	F-HEMBA1000594	87	R-HEMBA1000594	5627
	HEMBA1000604	F-HEMBA1000604	88	R-HEMBA1000604	5628
	HEMBA1000608	F-HEMBA1000608	89	R-HEMBA1000608	5629
35	HEMBA1000622	F-HEMBA1000622	90	R-HEMBA1000622	5630
	HEMBA1000636	F-HEMBA1000636	91	R-HEMBA1000636	5631
	HEMBA1000637	F-HEMBA1000637	92	R-HEMBA1000637	5632
	HEMBA1000655	F-HEMBA1000655	93	R-HEMBA1000655	5633
40	HEMBA1000657	F-HEMBA1000657	94	R-HEMBA1000657	5634
	HEMBA1000662	F-HEMBA1000662	95	R-HEMBA1000662	5635
	HEMBA1000673	F-HEMBA1000673	96	R-HEMBA1000673	5636
	HEMBA1000682	F-HEMBA1000682	97	R-HEMBA1000682	5637
45	HEMBA1000686	F-HEMBA1000686	98	R-HEMBA1000686	5638
	HEMBA1000702	F-HEMBA1000702	99	R-HEMBA1000702	5639
	HEMBA1000705	F-HEMBA1000705	100	R-HEMBA1000705	5640
	HEMBA1000719	F-HEMBA1000719	101	R-HEMBA1000719	5641
50	HEMBA1000722	F-HEMBA1000722	102	R-HEMBA1000722	5642
	HEMBA1000726	F-HEMBA1000726	103	R-HEMBA1000726	5643
	HEMBA1000727	F-HEMBA1000727	104	R-HEMBA1000727	5644
	HEMBA1000747	F-HEMBA1000747	105	R-HEMBA1000747	5645
	HEMBA1000749	F-HEMBA1000749	106	R-HEMBA1000749	5646
55	HEMBA1000752	F-HEMBA1000752	107	R-HEMBA1000752	5647

	HEMBA1000769	F-HEMBA1000769	108	R-HEMBA1000769	5648
	HEMBA1000773	F-HEMBA1000773	109	R-HEMBA1000773	5649
	HEMBA1000774	F-HEMBA1000774	110	R-HEMBA1000774	5650
5	HEMBA1000791	F-HEMBA1000791	111	R-HEMBA1000791	5651
	HEMBA1000817	F-HEMBA1000817	112	R-HEMBA1000817	5652
	HEMBA1000822	F-HEMBA1000822	113	R-HEMBA1000822	5653
10	HEMBA1000827	F-HEMBA1000827	114	R-HEMBA1000827	5654
	HEMBA1000843	F-HEMBA1000843	115	R-HEMBA1000843	5655
	HEMBA1000851	F-HEMBA1000851	116	R-HEMBA1000851	5656
	HEMBA1000852	F-HEMBA1000852	117	R-HEMBA1000852	5657
	HEMBA1000867	F-HEMBA1000867	118	R-HEMBA1000867	5658
15	HEMBA1000869	F-HEMBA1000869	119	R-HEMBA1000869	5659
	HEMBA1000870	F-HEMBA1000870	120	R-HEMBA1000870	5660
	HEMBA1000872	F-HEMBA1000872	121	R-HEMBA1000872	5661
	HEMBA1000876	F-HEMBA1000876	122	R-HEMBA1000876	5662
20	HEMBA1000908	F-HEMBA1000908	123	R-HEMBA1000908	5663
	HEMBA1000910	F-HEMBA1000910	124	R-HEMBA1000910	5664
	HEMBA1000918	F-HEMBA1000918	125	R-HEMBA1000918	5665
	HEMBA1000919	F-HEMBA1000919	126	R-HEMBA1000919	5666
	HEMBA1000934	F-HEMBA1000934	127	R-HEMBA1000934	5667
25	HEMBA1000942	F-HEMBA1000942	128	R-HEMBA1000942	5668
	HEMBA1000943	F-HEMBA1000943	129	R-HEMBA1000943	5669
	HEMBA1000946	F-HEMBA1000946	130	R-HEMBA1000946	5670
	HEMBA1000960	F-HEMBA1000960	131	R-HEMBA1000960	5671
30	HEMBA1000968	F-HEMBA1000968	132	R-HEMBA1000968	5672
	HEMBA1000971	F-HEMBA1000971	133	R-HEMBA1000971	5673
	HEMBA1000972	F-HEMBA1000972	134	R-HEMBA1000972	5674
	HEMBA1000974	F-HEMBA1000974	135	R-HEMBA1000974	5675
35	HEMBA1000975	F-HEMBA1000975	136	R-HEMBA1000975	5676
	HEMBA1000985	F-HEMBA1000985	137	R-HEMBA1000985	5677
	HEMBA1000986	F-HEMBA1000986	138	R-HEMBA1000986	5678
	HEMBA1000991	F-HEMBA1000991	139	R-HEMBA1000991	5679
40	HEMBA1001007	F-HEMBA1001007	140	R-HEMBA1001007	5680
	HEMBA1001008	F-HEMBA1001008	141	R-HEMBA1001008	5681
	HEMBA1001009	F-HEMBA1001009	142	R-HEMBA1001009	5682
	HEMBA1001017	F-HEMBA1001017	143	R-HEMBA1001017	5683
45	HEMBA1001019	F-HEMBA1001019	144	R-HEMBA1001019	5684
	HEMBA1001020	F-HEMBA1001020	145	R-HEMBA1001020	5685
	HEMBA1001022	F-HEMBA1001022	146	R-HEMBA1001022	5686
	HEMBA1001024	F-HEMBA1001024	147	R-HEMBA1001024	5687
	HEMBA1001026	F-HEMBA1001026	148	R-HEMBA1001026	5688
50	HEMBA1001043	F-HEMBA1001043	149	R-HEMBA1001043	5689
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	HEMBA1001080	F-HEMBA1001080	156	R-HEMBA1001080	5695
5	HEMBA1001085	F-HEMBA1001085	157	R-HEMBA1001085	5696
	HEMBA1001088	F-HEMBA1001088	158	R-HEMBA1001088	5697
	HEMBA1001094	F-HEMBA1001094	159	R-HEMBA1001094	5698
	HEMBA1001099	F-HEMBA1001099	160	R-HEMBA1001099	5699
10	HEMBA1001109	F-HEMBA1001109	161	R-HEMBA1001109	5700
	HEMBA1001121	F-HEMBA1001121	162	R-HEMBA1001121	5701
	HEMBA1001122	F-HEMBA1001122	163	R-HEMBA1001122	5702
	HEMBA1001123	F-HEMBA1001123	164	R-HEMBA1001123	5703
15	HEMBA1001133	F-HEMBA1001133	165	R-HEMBA1001133	5704
	HEMBA1001137	F-HEMBA1001137	166	R-HEMBA1001137	5705
	HEMBA1001140	F-HEMBA1001140	167	R-HEMBA1001140	5706
	HEMBA1001172	F-HEMBA1001172	168	R-HEMBA1001172	5707
20	HEMBA1001174	F-HEMBA1001174	169	R-HEMBA1001174	5708
	HEMBA1001197	F-HEMBA1001197	170	R-HEMBA1001197	5709
	HEMBA1001208	F-HEMBA1001208	171	R-HEMBA1001208	5710
	HEMBA1001213	F-HEMBA1001213	172		
25	HEMBA1001226	F-HEMBA1001226	173	R-HEMBA1001226	5711
	HEMBA1001235	F-HEMBA1001235	174	R-HEMBA1001235	5712
	HEMBA1001247	F-HEMBA1001247	175	R-HEMBA1001247	5713
	HEMBA1001257	F-HEMBA1001257	176	R-HEMBA1001257	5714
30	HEMBA1001265	F-HEMBA1001265	177	R-HEMBA1001265	5715
	HEMBA1001281	F-HEMBA1001281	178	R-HEMBA1001281	5716
	HEMBA1001286	F-HEMBA1001286	179	R-HEMBA1001286	5717
	HEMBA1001289	F-HEMBA1001289	180	R-HEMBA1001289	5718
	HEMBA1001294	F-HEMBA1001294	181	R-HEMBA1001294	5719
35	HEMBA1001299	F-HEMBA1001299	182	R-HEMBA1001299	5720
	HEMBA1001302	F-HEMBA1001302	183	R-HEMBA1001302	5721
	HEMBA1001303	F-HEMBA1001303	184	R-HEMBA1001303	5722
	HEMBA1001310	F-HEMBA1001310	185	R-HEMBA1001310	5723
40	HEMBA1001319	F-HEMBA1001319	186	R-HEMBA1001319	5724
	HEMBA1001323	F-HEMBA1001323	187	R-HEMBA1001323	5725
	HEMBA1001326	F-HEMBA1001326	188	R-HEMBA1001326	5726
	HEMBA1001327	F-HEMBA1001327	189	R-HEMBA1001327	5727
45	HEMBA1001330	F-HEMBA1001330	190	R-HEMBA1001330	5728
	HEMBA1001351	F-HEMBA1001351	191	R-HEMBA1001351	5729
	HEMBA1001361	F-HEMBA1001361	192	R-HEMBA1001361	5730
	HEMBA1001375	F-HEMBA1001375	193	R-HEMBA1001375	5731
50	HEMBA1001377	F-HEMBA1001377	194	R-HEMBA1001377	5732
	HEMBA1001383	F-HEMBA1001383	195	R-HEMBA1001383	5733
	HEMBA1001387	F-HEMBA1001387	196	R-HEMBA1001387	5734
	HEMBA1001388	F-HEMBA1001388	197	R-HEMBA1001388	5735
	HEMBA1001391	F-HEMBA1001391	198	R-HEMBA1001391	5736
55	HEMBA1001398	F-HEMBA1001398	199	R-HEMBA1001398	5737



	HEMBA1001405	F-HEMBA1001405	200	R-HEMBA1001405	5738
	HEMBA1001407	F-HEMBA1001407	201	R-HEMBA1001407	5739
	HEMBA1001411	F-HEMBA1001411	202	R-HEMBA1001411	5740
5	HEMBA1001413	F-HEMBA1001413	203	R-HEMBA1001413	5741
	HEMBA1001415	F-HEMBA1001415	204	R-HEMBA1001415	5742
	HEMBA1001432	F-HEMBA1001432	205	R-HEMBA1001432	5743
	HEMBA1001433	F-HEMBA1001433	206	R-HEMBA1001433	5744
10	HEMBA1001435	F-HEMBA1001435	207	R-HEMBA1001435	5745
	HEMBA1001442	F-HEMBA1001442	208	R-HEMBA1001442	5746
	HEMBA1001446	F-HEMBA1001446	209	R-HEMBA1001446	5747
	HEMBA1001450	F-HEMBA1001450	210	R-HEMBA1001450	5748
15	HEMBA1001454	F-HEMBA1001454	211	R-HEMBA1001454	5749
	HEMBA1001455	F-HEMBA1001455	212	R-HEMBA1001455	5750
	HEMBA1001463	F-HEMBA1001463	213	R-HEMBA1001463	5751
	HEMBA1001476	F-HEMBA1001476	214	R-HEMBA1001476	5752
20	HEMBA1001478	F-HEMBA1001478	215	R-HEMBA1001478	5753
	HEMBA1001497	F-HEMBA1001497	216	R-HEMBA1001497	5754
	HEMBA1001510	F-HEMBA1001510	217	R-HEMBA1001510	5755
	HEMBA1001515	F-HEMBA1001515	218	R-HEMBA1001515	5756
25	HEMBA1001517	F-HEMBA1001517	219	R-HEMBA1001517	5757
	HEMBA1001522	F-HEMBA1001522	220	R-HEMBA1001522	5758
	HEMBA1001526	F-HEMBA1001526	221	R-HEMBA1001526	5759
	HEMBA1001533	F-HEMBA1001533	222	R-HEMBA1001533	5760
30	HEMBA1001557	F-HEMBA1001557	223	R-HEMBA1001557	5761
	HEMBA1001566	F-HEMBA1001566	224	R-HEMBA1001566	5762
	HEMBA1001569	F-HEMBA1001569	225	R-HEMBA1001569	5763
	HEMBA1001570	F-HEMBA1001570	226	R-HEMBA1001570	5764
	HEMBA1001579	F-HEMBA1001579	227	R-HEMBA1001579	5765
35	HEMBA1001581	F-HEMBA1001581	228	R-HEMBA1001581	5766
	HEMBA1001585	F-HEMBA1001585	229	R-HEMBA1001585	5767
	HEMBA1001589	F-HEMBA1001589	230	R-HEMBA1001589	5768
	HEMBA1001595	F-HEMBA1001595	231	R-HEMBA1001595	5769
40	HEMBA1001608	F-HEMBA1001608	232	R-HEMBA1001608	5770
	HEMBA1001620	F-HEMBA1001620	233	R-HEMBA1001620	5771
	HEMBA1001635	F-HEMBA1001635	234	R-nnnnnnnnnnnnn	5772
	HEMBA1001636	F-HEMBA1001636	235	R-HEMBA1001636	5773
45	HEMBA1001640	F-HEMBA1001640	236	R-HEMBA1001640	5774
	HEMBA1001647	F-HEMBA1001647	237		
	HEMBA1001651	F-HEMBA1001651	238	R-nnnnnnnnnnnnn	5775
	HEMBA1001655	F-HEMBA1001655	239	R-HEMBA1001655	5776
	HEMBA1001658	F-HEMBA1001658	240	R-HEMBA1001658	5777
50	HEMBA1001661	F-HEMBA1001661	241	R-HEMBA1001661	5778
	HEMBA1001672	F-HEMBA1001672	242	R-HEMBA1001672	5779
	HEMBA1001675	F-HEMBA1001675	243	R-HEMBA1001675	5780
	HEMBA1001678	F-HEMBA1001678	244	R-HEMBA1001678	5781
55	HEMBA1001681	F-HEMBA1001681	245	R-HEMBA1001681	5782

	HEMBA1001702	F-HEMBA1001702	246	R-HEMBA1001702	5783
	HEMBA1001709	F-HEMBA1001709	247	R-HEMBA1001709	5784
	HEMBA1001711	F-HEMBA1001711	248	R-HEMBA1001711	5785
5	HEMBA1001712	F-HEMBA1001712	249	R-HEMBA1001712	5786
	HEMBA1001714	F-HEMBA1001714	250	R-HEMBA1001714	5787
	HEMBA1001718	F-HEMBA1001718	251	R-HEMBA1001718	5788
	HEMBA1001723	F-HEMBA1001723	252	R-HEMBA1001723	5789
10	HEMBA1001731	F-HEMBA1001731	253	R-HEMBA1001731	5790
	HEMBA1001734	F-HEMBA1001734	254	R-HEMBA1001734	5791
	HEMBA1001744	F-HEMBA1001744	255	R-HEMBA1001744	5792
	HEMBA1001745	F-HEMBA1001745	256	R-HEMBA1001745	5793
15	HEMBA1001746	F-HEMBA1001746	257	R-HEMBA1001746	5794
	HEMBA1001761	F-HEMBA1001761	258	R-HEMBA1001761	5795
	HEMBA1001781	F-HEMBA1001781	259	R-HEMBA1001781	5796
	HEMBA1001784	F-HEMBA1001784	260	R-HEMBA1001784	5797
20	HEMBA1001791	F-HEMBA1001791	261	R-HEMBA1001791	5798
	HEMBA1001800	F-HEMBA1001800	262	R-HEMBA1001800	5799
	HEMBA1001803	F-HEMBA1001803	263	R-HEMBA1001803	5800
	HEMBA1001804	F-HEMBA1001804	264	R-HEMBA1001804	5801
	HEMBA1001808	F-HEMBA1001808	265	R-HEMBA1001808	5802
25	HEMBA1001809	F-HEMBA1001809	266	R-HEMBA1001809	5803
	HEMBA1001815	F-HEMBA1001815	267	R-HEMBA1001815	5804
	HEMBA1001819	F-HEMBA1001819	268	R-HEMBA1001819	5805
	HEMBA1001820	F-HEMBA1001820	269	R-HEMBA1001820	5806
30	HEMBA1001822	F-HEMBA1001822	270	R-HEMBA1001822	5807
	HEMBA1001824	F-HEMBA1001824	271	R-HEMBA1001824	5808
	HEMBA1001835	F-HEMBA1001835	272	R-HEMBA1001835	5809
	HEMBA1001844	F-HEMBA1001844	273	R-HEMBA1001844	5810
35	HEMBA1001847	F-HEMBA1001847	274	R-HEMBA1001847	5811
	HEMBA1001861	F-HEMBA1001861	275	R-HEMBA1001861	5812
	HEMBA1001864	F-HEMBA1001864	276	R-HEMBA1001864	5813
	HEMBA1001866	F-HEMBA1001866	277	R-HEMBA1001866	5814
40	HEMBA1001869	F-HEMBA1001869	278	R-HEMBA1001869	5815
	HEMBA1001888	F-HEMBA1001888	279	R-HEMBA1001888	5816
	HEMBA1001896	F-HEMBA1001896	280	R-HEMBA1001896	5817
	HEMBA1001910	F-HEMBA1001910	281	R-HEMBA1001910	5818
	HEMBA1001912	F-HEMBA1001912	282	R-HEMBA1001912	5819
45	HEMBA1001913	F-HEMBA1001913	283	R-HEMBA1001913	5820
	HEMBA1001915	F-HEMBA1001915	284	R-HEMBA1001915	5821
	HEMBA1001918	F-HEMBA1001918	285	R-HEMBA1001918	5822
	HEMBA1001921	F-HEMBA1001921	286	R-HEMBA1001921	5823
50	HEMBA1001939	F-HEMBA1001939	287	R-HEMBA1001939	5824
	HEMBA1001940	F-HEMBA1001940	288	R-HEMBA1001940	5825
	HEMBA1001942	F-HEMBA1001942	289	R-HEMBA1001942	5826
	HEMBA1001945	F-HEMBA1001945	290	R-HEMBA1001945	5827
55	HEMBA1001950	F-HEMBA1001950	291	R-HEMBA1001950	5828

	HEMBA1001960	F-HEMBA1001960	292	R-HEMBA1001960	5829
	HEMBA1001962	F-HEMBA1001962	293	R-HEMBA1001962	5830
	HEMBA1001964	F-HEMBA1001964	294	R-HEMBA1001964	5831
5	HEMBA1001967	F-HEMBA1001967	295	R-HEMBA1001967	5832
	HEMBA1001979	F-HEMBA1001979	296	R-HEMBA1001979	5833
	HEMBA1001987	F-HEMBA1001987	297	R-HEMBA1001987	5834
	HEMBA1001991	F-HEMBA1001991	298	R-HEMBA1001991	5835
10	HEMBA1002003	F-HEMBA1002003	299	R-HEMBA1002003	5836
	HEMBA1002008	F-HEMBA1002008	300	R-HEMBA1002008	5837
	HEMBA1002018	F-HEMBA1002018	301	R-HEMBA1002018	5838
	HEMBA1002022	F-HEMBA1002022	302	R-HEMBA1002022	5839
15	HEMBA1002035	F-HEMBA1002035	303	R-HEMBA1002035	5840
	HEMBA1002039	F-HEMBA1002039	304	R-HEMBA1002039	5841
	HEMBA1002049	F-HEMBA1002049	305	R-HEMBA1002049	5842
	HEMBA1002084	F-HEMBA1002084	306	R-HEMBA1002084	5843
20	HEMBA1002092	F-HEMBA1002092	307	R-HEMBA1002092	5844
	HEMBA1002100	F-HEMBA1002100	308	R-HEMBA1002100	5845
	HEMBA1002102	F-HEMBA1002102	309	R-HEMBA1002102	5846
	HEMBA1002113	F-HEMBA1002113	310	R-HEMBA1002113	5847
	HEMBA1002119	F-HEMBA1002119	311	R-HEMBA1002119	5848
25	HEMBA1002125	F-HEMBA1002125	312	R-HEMBA1002125	5849
	HEMBA1002139	F-HEMBA1002139	313	R-HEMBA1002139	5850
	HEMBA1002144	F-HEMBA1002144	314	R-HEMBA1002144	5851
	HEMBA1002150	F-HEMBA1002150	315	R-HEMBA1002150	5852
30	HEMBA1002151	F-HEMBA1002151	316	R-HEMBA1002151	5853
	HEMBA1002153	F-HEMBA1002153	317	R-HEMBA1002153	5854
	HEMBA1002160	F-HEMBA1002160	318	R-HEMBA1002160	5855
	HEMBA1002161	F-HEMBA1002161	319	R-HEMBA1002161	5856
35	HEMBA1002162	F-HEMBA1002162	320	R-HEMBA1002162	5857
	HEMBA1002166	F-HEMBA1002166	321	R-HEMBA1002166	5858
	HEMBA1002177	F-HEMBA1002177	322	R-HEMBA1002177	5859
	HEMBA1002185	F-HEMBA1002185	323	R-HEMBA1002185	5860
40	HEMBA1002189	F-HEMBA1002189	324	R-HEMBA1002189	5861
	HEMBA1002191	F-HEMBA1002191	325	R-HEMBA1002191	5862
	HEMBA1002199	F-HEMBA1002199	326	R-HEMBA1002199	5863
	HEMBA1002204	F-HEMBA1002204	327	R-HEMBA1002204	5864
45	HEMBA1002212	F-HEMBA1002212	328	R-HEMBA1002212	5865
	HEMBA1002215	F-HEMBA1002215	329	R-HEMBA1002215	5866
	HEMBA1002226	F-HEMBA1002226	330	R-HEMBA1002226	5867
	HEMBA1002229	F-HEMBA1002229	331	R-HEMBA1002229	5868
	HEMBA1002237	F-HEMBA1002237	332	R-HEMBA1002237	5869
50	HEMBA1002241	F-HEMBA1002241	333		
	HEMBA1002253	F-HEMBA1002253	334	R-HEMBA1002253	5870
	HEMBA1002257	F-HEMBA1002257	335	R-HEMBA1002257	5871
	HEMBA1002265	F-HEMBA1002265	336		
55	HEMBA1002267	F-HEMBA1002267	337	R-HEMBA1002267	5872

	HEMBA1002270	F-HEMBA1002270	338	R-HEMBA1002270	5873
	HEMBA1002321	F-HEMBA1002321	339	R-HEMBA1002321	5874
	HEMBA1002328	F-HEMBA1002328	340	R-HEMBA1002328	5875
5	HEMBA1002337	F-HEMBA1002337	341	R-HEMBA1002337	5876
	HEMBA1002341	F-HEMBA1002341	342	R-HEMBA1002341	5877
	HEMBA1002348	F-HEMBA1002348	343	R-HEMBA1002348	5878
	HEMBA1002349	F-HEMBA1002349	344	R-HEMBA1002349	5879
10	HEMBA1002363	F-HEMBA1002363	345	R-HEMBA1002363	5880
	HEMBA1002381	F-HEMBA1002381	346	R-HEMBA1002381	5881
	HEMBA1002389	F-HEMBA1002389	347	R-HEMBA1002389	5882
	HEMBA1002417	F-HEMBA1002417	348	R-HEMBA1002417	5883
15	HEMBA1002419	F-HEMBA1002419	349	R-HEMBA1002419	5884
	HEMBA1002430	F-HEMBA1002430	350	R-HEMBA1002430	5885
	HEMBA1002439	F-HEMBA1002439	351	R-HEMBA1002439	5886
	HEMBA1002458	F-HEMBA1002458	352	R-HEMBA1002458	5887
20	HEMBA1002460	F-HEMBA1002460	353	R-HEMBA1002460	5888
	HEMBA1002462	F-HEMBA1002462	354	R-HEMBA1002462	5889
	HEMBA1002469	F-HEMBA1002469	355	R-HEMBA1002469	5890
	HEMBA1002475	F-HEMBA1002475	356	R-HEMBA1002475	5891
25	HEMBA1002477	F-HEMBA1002477	357	R-HEMBA1002477	5892
	HEMBA1002486	F-HEMBA1002486	358	R-HEMBA1002486	5893
	HEMBA1002495	F-HEMBA1002495	359	R-HEMBA1002495	5894
	HEMBA1002498	F-HEMBA1002498	360	R-HEMBA1002498	5895
30	HEMBA1002503	F-HEMBA1002503	361	R-HEMBA1002503	5896
	HEMBA1002508	F-HEMBA1002508	362	R-HEMBA1002508	5897
	HEMBA1002513	F-HEMBA1002513	363	R-HEMBA1002513	5898
	HEMBA1002515	F-HEMBA1002515	364	R-HEMBA1002515	5899
35	HEMBA1002538	F-HEMBA1002538	365	R-HEMBA1002538	5900
	HEMBA1002542	F-HEMBA1002542	366	R-HEMBA1002542	5901
	HEMBA1002547	F-HEMBA1002547	367	R-HEMBA1002547	5902
	HEMBA1002552	F-HEMBA1002552	368	R-HEMBA1002552	5903
40	HEMBA1002555	F-HEMBA1002555	369	R-HEMBA1002555	5904
	HEMBA1002558	F-HEMBA1002558	370	R-HEMBA1002558	5905
	HEMBA1002561	F-HEMBA1002561	371	R-HEMBA1002561	5906
	HEMBA1002569	F-HEMBA1002569	372	R-HEMBA1002569	5907
	HEMBA1002583	F-HEMBA1002583	373	R-HEMBA1002583	5908
45	HEMBA1002590	F-HEMBA1002590	374	R-HEMBA1002590	5909
	HEMBA1002592	F-HEMBA1002592	375	R-HEMBA1002592	5910
	HEMBA1002609	F-HEMBA1002609	376	R-HEMBA1002609	5911
	HEMBA1002621	F-HEMBA1002621	377	R-HEMBA1002621	5912
50	HEMBA1002624	F-HEMBA1002624	378	R-HEMBA1002624	5913
	HEMBA1002628	F-HEMBA1002628	379	R-HEMBA1002628	5914
	HEMBA1002629	F-HEMBA1002629	380	R-HEMBA1002629	5915
	HEMBA1002645	F-HEMBA1002645	381	R-HEMBA1002645	5916
	HEMBA1002651	F-HEMBA1002651	382	R-HEMBA1002651	5917
55	HEMBA1002659	F-HEMBA1002659	383	R-HEMBA1002659	5918

	HEMBA1002661	F-HEMBA1002661	384	R-HEMBA1002661	5917
	HEMBA1002666	F-HEMBA1002666	385	R-HEMBA1002666	5918
	HEMBA1002678	F-HEMBA1002678	386	R-HEMBA1002678	5919
5	HEMBA1002679	F-HEMBA1002679	387	R-nnnnnnnnnnnnn	5920
	HEMBA1002688	F-HEMBA1002688	388	R-HEMBA1002688	5921
	HEMBA1002696	F-HEMBA1002696	389	R-HEMBA1002696	5922
	HEMBA1002703	F-HEMBA1002703	390		
10	HEMBA1002712	F-HEMBA1002712	391	R-HEMBA1002712	5923
	HEMBA1002716	F-HEMBA1002716	392	R-HEMBA1002716	5924
	HEMBA1002728	F-HEMBA1002728	393	R-HEMBA1002728	5925
	HEMBA1002730	F-HEMBA1002730	394	R-HEMBA1002730	5926
15	HEMBA1002742	F-HEMBA1002742	395	R-HEMBA1002742	5927
	HEMBA1002746	F-HEMBA1002746	396	R-HEMBA1002746	5928
	HEMBA1002748	F-HEMBA1002748	397	R-HEMBA1002748	5929
	HEMBA1002750	F-HEMBA1002750	398	R-HEMBA1002750	5930
20	HEMBA1002768	F-HEMBA1002768	399	R-HEMBA1002768	5931
	HEMBA1002770	F-HEMBA1002770	400	R-HEMBA1002770	5932
	HEMBA1002777	F-HEMBA1002777	401	R-HEMBA1002777	5933
	HEMBA1002779	F-HEMBA1002779	402	R-HEMBA1002779	5934
	HEMBA1002780	F-HEMBA1002780	403	R-HEMBA1002780	5935
25	HEMBA1002794	F-HEMBA1002794	404	R-HEMBA1002794	5936
	HEMBA1002801	F-HEMBA1002801	405	R-HEMBA1002801	5937
	HEMBA1002810	F-HEMBA1002810	406	R-HEMBA1002810	5938
	HEMBA1002816	F-HEMBA1002816	407	R-HEMBA1002816	5939
30	HEMBA1002818	F-HEMBA1002818	408		
	HEMBA1002826	F-HEMBA1002826	409	R-HEMBA1002826	5940
	HEMBA1002833	F-HEMBA1002833	410	R-HEMBA1002833	5941
	HEMBA1002850	F-HEMBA1002850	411	R-HEMBA1002850	5942
35	HEMBA1002863	F-HEMBA1002863	412	R-HEMBA1002863	5943
	HEMBA1002876	F-HEMBA1002876	413	R-HEMBA1002876	5944
	HEMBA1002886	F-HEMBA1002886	414	R-HEMBA1002886	5945
	HEMBA1002896	F-HEMBA1002896	415	R-HEMBA1002896	5946
40	HEMBA1002921	F-HEMBA1002921	416	R-HEMBA1002921	5947
	HEMBA1002924	F-HEMBA1002924	417	R-HEMBA1002924	5948
	HEMBA1002934	F-HEMBA1002934	418	R-HEMBA1002934	5949
	HEMBA1002935	F-HEMBA1002935	419	R-HEMBA1002935	5950
45	HEMBA1002937	F-HEMBA1002937	420	R-HEMBA1002937	5951
	HEMBA1002939	F-HEMBA1002939	421	R-HEMBA1002939	5952
	HEMBA1002944	F-HEMBA1002944	422	R-HEMBA1002944	5953
	HEMBA1002951	F-HEMBA1002951	423	R-HEMBA1002951	5954
	HEMBA1002954	F-HEMBA1002954	424	R-HEMBA1002954	5955
50	HEMBA1002968	F-HEMBA1002968	425	R-HEMBA1002968	5956
	HEMBA1002970	F-HEMBA1002970	426	R-HEMBA1002970	5957
	HEMBA1002971	F-HEMBA1002971	427	R-HEMBA1002971	5958
	HEMBA1002973	F-HEMBA1002973	428	R-HEMBA1002973	5959
55	HEMBA1002997	F-HEMBA1002997	429	R-nnnnnnnnnnnnn	5960

	HEMBA1002999	F-HEMBA1002999	430	R-HEMBA1002999	5961
	HEMBA1003021	F-HEMBA1003021	431	R-HEMBA1003021	5962
	HEMBA1003033	F-HEMBA1003033	432	R-HEMBA1003033	5963
5	HEMBA1003034	F-HEMBA1003034	433	R-HEMBA1003034	5964
	HEMBA1003035	F-HEMBA1003035	434	R-HEMBA1003035	5965
	HEMBA1003037	F-HEMBA1003037	435	R-HEMBA1003037	5966
	HEMBA1003041	F-HEMBA1003041	436	R-HEMBA1003041	5967
10	HEMBA1003046	F-HEMBA1003046	437	R-HEMBA1003046	5968
	HEMBA1003064	F-HEMBA1003064	438	R-HEMBA1003064	5969
	HEMBA1003067	F-HEMBA1003067	439	R-HEMBA1003067	5970
	HEMBA1003071	F-HEMBA1003071	440	R-HEMBA1003071	5971
15	HEMBA1003077	F-HEMBA1003077	441	R-HEMBA1003077	5972
	HEMBA1003078	F-HEMBA1003078	442	R-HEMBA1003078	5973
	HEMBA1003079	F-HEMBA1003079	443	R-HEMBA1003079	5974
	HEMBA1003083	F-HEMBA1003083	444	R-HEMBA1003083	5975
20	HEMBA1003086	F-HEMBA1003086	445	R-HEMBA1003086	5976
	HEMBA1003096	F-HEMBA1003096	446	R-HEMBA1003096	5977
	HEMBA1003098	F-HEMBA1003098	447	R-HEMBA1003098	5978
	HEMBA1003117	F-HEMBA1003117	448	R-HEMBA1003117	5979
	HEMBA1003129	F-HEMBA1003129	449	R-HEMBA1003129	5980
25	HEMBA1003133	F-HEMBA1003133	450	R-HEMBA1003133	5981
	HEMBA1003136	F-HEMBA1003136	451	R-HEMBA1003136	5982
	HEMBA1003142	F-HEMBA1003142	452	R-HEMBA1003142	5983
	HEMBA1003148	F-HEMBA1003148	453	R-HEMBA1003148	5984
30	HEMBA1003166	F-HEMBA1003166	454	R-HEMBA1003166	5985
	HEMBA1003175	F-HEMBA1003175	455	R-HEMBA1003175	5986
	HEMBA1003179	F-HEMBA1003179	456		
	HEMBA1003197	F-HEMBA1003197	457	R-HEMBA1003197	5987
35	HEMBA1003199	F-HEMBA1003199	458	R-HEMBA1003199	5988
	HEMBA1003202	F-HEMBA1003202	459	R-HEMBA1003202	5989
	HEMBA1003204	F-HEMBA1003204	460	R-HEMBA1003204	5990
	HEMBA1003212	F-HEMBA1003212	461	R-HEMBA1003212	5991
40	HEMBA1003220	F-HEMBA1003220	462	R-HEMBA1003220	5992
	HEMBA1003222	F-HEMBA1003222	463	R-HEMBA1003222	5993
	HEMBA1003229	F-HEMBA1003229	464	R-HEMBA1003229	5994
	HEMBA1003235	F-HEMBA1003235	465	R-HEMBA1003235	5995
	HEMBA1003250	F-HEMBA1003250	466	R-HEMBA1003250	5996
45	HEMBA1003257	F-HEMBA1003257	467	R-HEMBA1003257	5997
	HEMBA1003273	F-HEMBA1003273	468	R-HEMBA1003273	5998
	HEMBA1003276	F-HEMBA1003276	469	R-HEMBA1003276	5999
	HEMBA1003278	F-HEMBA1003278	470	R-HEMBA1003278	6000
50	HEMBA1003281	F-HEMBA1003281	471	R-HEMBA1003281	6001
	HEMBA1003286	F-HEMBA1003286	472		
	HEMBA1003291	F-HEMBA1003291	473	R-HEMBA1003291	6002
	HEMBA1003296	F-HEMBA1003296	474	R-HEMBA1003296	6003
55	HEMBA1003304	F-HEMBA1003304	475	R-HEMBA1003304	6004

	HEMBA1003309	F-HEMBA1003309	476	R-HEMBA1003309	6005
	HEMBA1003314	F-HEMBA1003314	477	R-HEMBA1003314	6006
	HEMBA1003322	F-HEMBA1003322	478	R-HEMBA1003322	6007
5	HEMBA1003327	F-HEMBA1003327	479	R-HEMBA1003327	6008
	HEMBA1003328	F-HEMBA1003328	480	R-HEMBA1003328	6009
	HEMBA1003330	F-HEMBA1003330	481	R-HEMBA1003330	6010
	HEMBA1003348	F-HEMBA1003348	482	R-HEMBA1003348	6011
10	HEMBA1003369	F-HEMBA1003369	483	R-HEMBA1003369	6012
	HEMBA1003370	F-HEMBA1003370	484	R-HEMBA1003370	6013
	HEMBA1003373	F-HEMBA1003373	485	R-HEMBA1003373	6014
	HEMBA1003376	F-HEMBA1003376	486	R-HEMBA1003376	6015
15	HEMBA1003380	F-HEMBA1003380	487	R-HEMBA1003380	6016
	HEMBA1003384	F-HEMBA1003384	488	R-HEMBA1003384	6017
	HEMBA1003395	F-HEMBA1003395	489	R-HEMBA1003395	6018
	HEMBA1003402	F-HEMBA1003402	490	R-HEMBA1003402	6019
	HEMBA1003403	F-HEMBA1003403	491		
20	HEMBA1003408	F-HEMBA1003408	492	R-aaaaaaaaaaaa	6020
	HEMBA1003417	F-HEMBA1003417	493	R-HEMBA1003417	6021
	HEMBA1003418	F-HEMBA1003418	494	R-HEMBA1003418	6022
	HEMBA1003433	F-HEMBA1003433	495	R-HEMBA1003433	6023
25	HEMBA1003447	F-HEMBA1003447	496		
	HEMBA1003461	F-HEMBA1003461	497	R-HEMBA1003461	6024
	HEMBA1003463	F-HEMBA1003463	498	R-HEMBA1003463	6025
	HEMBA1003480	F-HEMBA1003480	499	R-HEMBA1003480	6026
30	HEMBA1003528	F-HEMBA1003528	500	R-HEMBA1003528	6027
	HEMBA1003531	F-HEMBA1003531	501	R-HEMBA1003531	6028
	HEMBA1003538	F-HEMBA1003538	502	R-HEMBA1003538	6029
	HEMBA1003545	F-HEMBA1003545	503	R-HEMBA1003545	6030
35	HEMBA1003548	F-HEMBA1003548	504	R-HEMBA1003548	6031
	HEMBA1003555	F-HEMBA1003555	505	R-HEMBA1003555	6032
	HEMBA1003556	F-HEMBA1003556	506	R-HEMBA1003556	6033
	HEMBA1003560	F-HEMBA1003560	507	R-HEMBA1003560	6034
40	HEMBA1003568	F-HEMBA1003568	508	R-HEMBA1003568	6035
	HEMBA1003569	F-HEMBA1003569	509	R-HEMBA1003569	6036
	HEMBA1003571	F-HEMBA1003571	510	R-HEMBA1003571	6037
	HEMBA1003579	F-HEMBA1003579	511	R-HEMBA1003579	6038
	HEMBA1003581	F-HEMBA1003581	512	R-HEMBA1003581	6039
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	HEMBA1003595	F-HEMBA1003595	514	R-HEMBA1003595	6041
	HEMBA1003597	F-HEMBA1003597	515	R-HEMBA1003597	6042
	HEMBA1003598	F-HEMBA1003598	516	R-HEMBA1003598	6043
50	HEMBA1003615	F-HEMBA1003615	517	R-HEMBA1003615	6044
	HEMBA1003617	F-HEMBA1003617	518	R-HEMBA1003617	6045
	HEMBA1003621	F-HEMBA1003621	519	R-HEMBA1003621	6046
	HEMBA1003622	F-HEMBA1003622	520	R-HEMBA1003622	6047
55	HEMBA1003630	F-HEMBA1003630	521	R-HEMBA1003630	6048

	HEMBA1003637	F-HEMBA1003637	522	R-HEMBA1003637	6049
	HEMBA1003640	F-HEMBA1003640	523	R-HEMBA1003640	6050
	HEMBA1003645	F-HEMBA1003645	524	R-HEMBA1003645	6051
5	HEMBA1003646	F-HEMBA1003646	525	R-HEMBA1003646	6052
	HEMBA1003656	F-HEMBA1003656	526	R-HEMBA1003656	6053
	HEMBA1003662	F-HEMBA1003662	527	R-HEMBA1003662	6054
	HEMBA1003667	F-HEMBA1003667	528	R-HEMBA1003667	6055
10	HEMBA1003679	F-HEMBA1003679	529	R-HEMBA1003679	6056
	HEMBA1003680	F-HEMBA1003680	530	R-HEMBA1003680	6057
	HEMBA1003684	F-HEMBA1003684	531	R-HEMBA1003684	6058
	HEMBA1003690	F-HEMBA1003690	532	R-HEMBA1003690	6059
15	HEMBA1003692	F-HEMBA1003692	533	R-HEMBA1003692	6060
	HEMBA1003711	F-HEMBA1003711	534	R-HEMBA1003711	6061
	HEMBA1003714	F-HEMBA1003714	535	R-HEMBA1003714	6062
	HEMBA1003715	F-HEMBA1003715	536	R-HEMBA1003715	6063
20	HEMBA1003720	F-HEMBA1003720	537	R-HEMBA1003720	6064
	HEMBA1003725	F-HEMBA1003725	538	R-HEMBA1003725	6065
	HEMBA1003729	F-HEMBA1003729	539	R-HEMBA1003729	6066
	HEMBA1003733	F-HEMBA1003733	540	R-HEMBA1003733	6067
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25	HEMBA1003758	F-HEMBA1003758	542	R-HEMBA1003758	6069
	HEMBA1003760	F-HEMBA1003760	543	R-HEMBA1003760	6070
	HEMBA1003773	F-HEMBA1003773	544	R-HEMBA1003773	6071
	HEMBA1003783	F-HEMBA1003783	545	R-HEMBA1003783	6072
30	HEMBA1003784	F-HEMBA1003784	546	R-HEMBA1003784	6073
	HEMBA1003799	F-HEMBA1003799	547	R-HEMBA1003799	6074
	HEMBA1003803	F-HEMBA1003803	548	R-HEMBA1003803	6075
	HEMBA1003804	F-HEMBA1003804	549	R-HEMBA1003804	6076
35	HEMBA1003805	F-HEMBA1003805	550	R-HEMBA1003805	6077
	HEMBA1003807	F-HEMBA1003807	551	R-HEMBA1003807	6078
	HEMBA1003827	F-HEMBA1003827	552		
	HEMBA1003836	F-HEMBA1003836	553	R-HEMBA1003836	6079
	HEMBA1003838	F-HEMBA1003838	554	R-HEMBA1003838	6080
40	HEMBA1003856	F-HEMBA1003856	555	R-HEMBA1003856	6081
	HEMBA1003864	F-HEMBA1003864	556	R-HEMBA1003864	6082
	HEMBA1003866	F-HEMBA1003866	557	R-HEMBA1003866	6083
	HEMBA1003879	F-HEMBA1003879	558	R-HEMBA1003879	6084
45	HEMBA1003880	F-HEMBA1003880	559	R-HEMBA1003880	6085
	HEMBA1003885	F-HEMBA1003885	560	R-HEMBA1003885	6086
	HEMBA1003893	F-HEMBA1003893	561	R-HEMBA1003893	6087
	HEMBA1003902	F-HEMBA1003902	562	R-HEMBA1003902	6088
50	HEMBA1003908	F-HEMBA1003908	563	R-HEMBA1003908	6089
	HEMBA1003926	F-HEMBA1003926	564	R-HEMBA1003926	6090
	HEMBA1003937	F-HEMBA1003937	565	R-HEMBA1003937	6091
	HEMBA1003939	F-HEMBA1003939	566	R-HEMBA1003939	6092
55	HEMBA1003942	F-HEMBA1003942	567	R-HEMBA1003942	6093



	HEMBA1003950	F-HEMBA1003950	568	R-HEMBA1003950	6094
	HEMBA1003953	F-HEMBA1003953	569	R-HEMBA1003953	6095
	HEMBA1003958	F-HEMBA1003958	570	R-HEMBA1003958	6096
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	HEMBA1003976	F-HEMBA1003976	572	R-HEMBA1003976	6098
	HEMBA1003978	F-HEMBA1003978	573	R-HEMBA1003978	6099
	HEMBA1003985	F-HEMBA1003985	574	R-HEMBA1003985	6100
10	HEMBA1003987	F-HEMBA1003987	575	R-HEMBA1003987	6101
	HEMBA1003989	F-HEMBA1003989	576	R-HEMBA1003989	6102
	HEMBA1004000	F-HEMBA1004000	577	R-HEMBA1004000	6103
	HEMBA1004011	F-HEMBA1004011	578	R-HEMBA1004011	6104
15	HEMBA1004012	F-HEMBA1004012	579	R-HEMBA1004012	6105
	HEMBA1004015	F-HEMBA1004015	580	R-HEMBA1004015	6106
	HEMBA1004024	F-HEMBA1004024	581	R-HEMBA1004024	6107
	HEMBA1004038	F-HEMBA1004038	582	R-HEMBA1004038	6108
20	HEMBA1004042	F-HEMBA1004042	583	R-HEMBA1004042	6109
	HEMBA1004045	F-HEMBA1004045	584	R-HEMBA1004045	6110
	HEMBA1004048	F-HEMBA1004048	585	R-HEMBA1004048	6111
	HEMBA1004049	F-HEMBA1004049	586	R-HEMBA1004049	6112
	HEMBA1004055	F-HEMBA1004055	587	R-HEMBA1004055	6113
25	HEMBA1004056	F-HEMBA1004056	588	R-HEMBA1004056	6114
	HEMBA1004074	F-HEMBA1004074	589	R-HEMBA1004074	6115
	HEMBA1004086	F-HEMBA1004086	590	R-HEMBA1004086	6116
	HEMBA1004097	F-HEMBA1004097	591	R-HEMBA1004097	6117
30	HEMBA1004111	F-HEMBA1004111	592		
	HEMBA1004131	F-HEMBA1004131	593	R-HEMBA1004131	6118
	HEMBA1004132	F-HEMBA1004132	594	R-HEMBA1004132	6119
	HEMBA1004133	F-HEMBA1004133	595	R-HEMBA1004133	6120
35	HEMBA1004138	F-HEMBA1004138	596	R-HEMBA1004138	6121
	HEMBA1004143	F-HEMBA1004143	597	R-HEMBA1004143	6122
	HEMBA1004146	F-HEMBA1004146	598	R-HEMBA1004146	6123
	HEMBA1004150	F-HEMBA1004150	599	R-HEMBA1004150	6124
40	HEMBA1004164	F-HEMBA1004164	600	R-HEMBA1004164	6125
	HEMBA1004168	F-HEMBA1004168	601	R-HEMBA1004168	6126
	HEMBA1004199	F-HEMBA1004199	602	R-HEMBA1004199	6127
	HEMBA1004200	F-HEMBA1004200	603	R-HEMBA1004200	6128
	HEMBA1004202	F-HEMBA1004202	604	R-HEMBA1004202	6129
45	HEMBA1004203	F-HEMBA1004203	605	R-HEMBA1004203	6130
	HEMBA1004207	F-HEMBA1004207	606	R-HEMBA1004207	6131
	HEMBA1004225	F-HEMBA1004225	607	R-HEMBA1004225	6132
	HEMBA1004227	F-HEMBA1004227	608	R-HEMBA1004227	6133
50	HEMBA1004238	F-HEMBA1004238	609	R-HEMBA1004238	6134
	HEMBA1004241	F-HEMBA1004241	610	R-HEMBA1004241	6135
	HEMBA1004246	F-HEMBA1004246	611	R-HEMBA1004246	6136
	HEMBA1004248	F-HEMBA1004248	612	R-HEMBA1004248	6137
55	HEMBA1004264	F-HEMBA1004264	613	R-HEMBA1004264	6138

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	HEMBA1004272	F-HEMBA1004272	615	R-HEMBA1004272	6140
	HEMBA1004274	F-HEMBA1004274	616		
5	HEMBA1004275	F-HEMBA1004275	617	R-nnnnnnnnnnnnn	6141
	HEMBA1004276	F-HEMBA1004276	618	R-HEMBA1004276	6142
	HEMBA1004286	F-HEMBA1004286	619	R-HEMBA1004286	6143
	HEMBA1004289	F-HEMBA1004289	620	R-HEMBA1004289	6144
10	HEMBA1004295	F-HEMBA1004295	621	R-HEMBA1004295	6145
	HEMBA1004306	F-HEMBA1004306	622	R-HEMBA1004306	6146
	HEMBA1004312	F-HEMBA1004312	623	R-HEMBA1004312	6147
	HEMBA1004321	F-HEMBA1004321	624	R-HEMBA1004321	6148
	HEMBA1004323	F-HEMBA1004323	625	R-HEMBA1004323	6149
15	HEMBA1004327	F-HEMBA1004327	626	R-HEMBA1004327	6150
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	HEMBA1004334	F-HEMBA1004334	628	R-HEMBA1004334	6152
	HEMBA1004335	F-HEMBA1004335	629	R-HEMBA1004335	6153
20	HEMBA1004341	F-HEMBA1004341	630	R-HEMBA1004341	6154
	HEMBA1004353	F-HEMBA1004353	631	R-HEMBA1004353	6155
	HEMBA1004354	F-HEMBA1004354	632	R-HEMBA1004354	6156
	HEMBA1004356	F-HEMBA1004356	633	R-HEMBA1004356	6157
25	HEMBA1004366	F-HEMBA1004366	634	R-HEMBA1004366	6158
	HEMBA1004372	F-HEMBA1004372	635	R-HEMBA1004372	6159
	HEMBA1004389	F-HEMBA1004389	636	R-HEMBA1004389	6160
	HEMBA1004394	F-HEMBA1004394	637	R-HEMBA1004394	6161
30	HEMBA1004396	F-HEMBA1004396	638	R-HEMBA1004396	6162
	HEMBA1004405	F-HEMBA1004405	639	R-HEMBA1004405	6163
	HEMBA1004408	F-HEMBA1004408	640	R-HEMBA1004408	6164
	HEMBA1004429	F-HEMBA1004429	641	R-HEMBA1004429	6165
35	HEMBA1004433	F-HEMBA1004433	642	R-HEMBA1004433	6166
	HEMBA1004460	F-HEMBA1004460	643	R-HEMBA1004460	6167
	HEMBA1004461	F-HEMBA1004461	644	R-HEMBA1004461	6168
	HEMBA1004479	F-HEMBA1004479	645	R-HEMBA1004479	6169
	HEMBA1004482	F-HEMBA1004482	646	R-HEMBA1004482	6170
40	HEMBA1004499	F-HEMBA1004499	647		
	HEMBA1004502	F-HEMBA1004502	648	R-HEMBA1004502	6171
	HEMBA1004506	F-HEMBA1004506	649	R-HEMBA1004506	6172
	HEMBA1004507	F-HEMBA1004507	650	R-HEMBA1004507	6173
45	HEMBA1004509	F-HEMBA1004509	651	R-HEMBA1004509	6174
	HEMBA1004534	F-HEMBA1004534	652	R-HEMBA1004534	6175
	HEMBA1004538	F-HEMBA1004538	653	R-HEMBA1004538	6176
	HEMBA1004542	F-HEMBA1004542	654		
50	HEMBA1004554	F-HEMBA1004554	655	R-HEMBA1004554	6177
	HEMBA1004560	F-HEMBA1004560	656	R-HEMBA1004560	6178
	HEMBA1004573	F-HEMBA1004573	657	R-HEMBA1004573	6179
	HEMBA1004577	F-HEMBA1004577	658	R-HEMBA1004577	6180
55	HEMBA1004586	F-HEMBA1004586	659	R-HEMBA1004586	6181

	HEMBA1004596	F-HEMBA1004596	660	R-nnnnnnnnnnn	6182
	HEMBA1004604	F-HEMBA1004604	661		
	HEMBA1004610	F-HEMBA1004610	662	R-HEMBA1004610	6183
5	HEMBA1004617	F-HEMBA1004617	663	R-HEMBA1004617	6184
	HEMBA1004629	F-HEMBA1004629	664	R-HEMBA1004629	6185
	HEMBA1004631	F-HEMBA1004631	665	R-HEMBA1004631	6186
	HEMBA1004632	F-HEMBA1004632	666	R-HEMBA1004632	6187
10	HEMBA1004637	F-HEMBA1004637	667	R-HEMBA1004637	6188
	HEMBA1004638	F-HEMBA1004638	668	R-HEMBA1004638	6189
	HEMBA1004666	F-HEMBA1004666	669	R-HEMBA1004666	6190
	HEMBA1004669	F-HEMBA1004669	670	R-HEMBA1004669	6191
	HEMBA1004670	F-HEMBA1004670	671	R-HEMBA1004670	6192
15	HEMBA1004672	F-HEMBA1004672	672	R-HEMBA1004672	6193
	HEMBA1004693	F-HEMBA1004693	673	R-HEMBA1004693	6194
	HEMBA1004697	F-HEMBA1004697	674	R-HEMBA1004697	6195
	HEMBA1004705	F-HEMBA1004705	675	R-HEMBA1004705	6196
20	HEMBA1004709	F-HEMBA1004709	676	R-HEMBA1004709	6197
	HEMBA1004711	F-HEMBA1004711	677	R-HEMBA1004711	6198
	HEMBA1004725	F-HEMBA1004725	678	R-HEMBA1004725	6199
	HEMBA1004730	F-HEMBA1004730	679	R-HEMBA1004730	6200
25	HEMBA1004733	F-HEMBA1004733	680	R-HEMBA1004733	6201
	HEMBA1004734	F-HEMBA1004734	681	R-HEMBA1004734	6202
	HEMBA1004736	F-HEMBA1004736	682	R-HEMBA1004736	6203
	HEMBA1004748	F-HEMBA1004748	683	R-HEMBA1004748	6204
30	HEMBA1004751	F-HEMBA1004751	684	R-HEMBA1004751	6205
	HEMBA1004752	F-HEMBA1004752	685	R-HEMBA1004752	6206
	HEMBA1004753	F-HEMBA1004753	686	R-HEMBA1004753	6207
	HEMBA1004756	F-HEMBA1004756	687	R-HEMBA1004756	6208
35	HEMBA1004758	F-HEMBA1004758	688	R-HEMBA1004758	6209
	HEMBA1004763	F-HEMBA1004763	689	R-HEMBA1004763	6210
	HEMBA1004768	F-HEMBA1004768	690	R-HEMBA1004768	6211
	HEMBA1004770	F-HEMBA1004770	691	R-HEMBA1004770	6212
	HEMBA1004771	F-HEMBA1004771	692	R-HEMBA1004771	6213
40	HEMBA1004776	F-HEMBA1004776	693	R-HEMBA1004776	6214
	HEMBA1004778	F-HEMBA1004778	694	R-HEMBA1004778	6215
	HEMBA1004795	F-HEMBA1004795	695	R-nnnnnnnnnnn	6216
	HEMBA1004803	F-HEMBA1004803	696	R-HEMBA1004803	6217
45	HEMBA1004806	F-HEMBA1004806	697	R-HEMBA1004806	6218
	HEMBA1004807	F-HEMBA1004807	698	R-HEMBA1004807	6219
	HEMBA1004816	F-HEMBA1004816	699	R-HEMBA1004816	6220
	HEMBA1004820	F-HEMBA1004820	700	R-HEMBA1004820	6221
50	HEMBA1004847	F-HEMBA1004847	701	R-HEMBA1004847	6222
	HEMBA1004850	F-HEMBA1004850	702	R-HEMBA1004850	6223
	HEMBA1004863	F-HEMBA1004863	703	R-HEMBA1004863	6224
	HEMBA1004864	F-HEMBA1004864	704	R-HEMBA1004864	6225
55	HEMBA1004865	F-HEMBA1004865	705	R-HEMBA1004865	6226

	HEMBA1004880	F-HEMBA1004880	706	R-HEMBA1004880	6227
	HEMBA1004889	F-HEMBA1004889	707	R-HEMBA1004889	6228
	HEMBA1004900	F-HEMBA1004900	708	R-HEMBA1004900	6229
5	HEMBA1004909	F-HEMBA1004909	709	R-HEMBA1004909	6230
	HEMBA1004918	F-HEMBA1004918	710	R-HEMBA1004918	6231
	HEMBA1004923	F-HEMBA1004923	711	R-HEMBA1004923	6232
	HEMBA1004929	F-HEMBA1004929	712	R-HEMBA1004929	6233
10	HEMBA1004930	F-HEMBA1004930	713	R-HEMBA1004930	6234
	HEMBA1004933	F-HEMBA1004933	714	R-HEMBA1004933	6235
	HEMBA1004934	F-HEMBA1004934	715	R-HEMBA1004934	6236
	HEMBA1004944	F-HEMBA1004944	716	R-HEMBA1004944	6237
	HEMBA1004954	F-HEMBA1004954	717	R-HEMBA1004954	6238
15	HEMBA1004956	F-HEMBA1004956	718	R-HEMBA1004956	6239
	HEMBA1004960	F-HEMBA1004960	719	R-HEMBA1004960	6240
	HEMBA1004972	F-HEMBA1004972	720	R-HEMBA1004972	6241
	HEMBA1004973	F-HEMBA1004973	721	R-HEMBA1004973	6242
20	HEMBA1004977	F-HEMBA1004977	722	R-HEMBA1004977	6243
	HEMBA1004978	F-HEMBA1004978	723	R-HEMBA1004978	6244
	HEMBA1004980	F-HEMBA1004980	724	R-HEMBA1004980	6245
	HEMBA1004983	F-HEMBA1004983	725	R-HEMBA1004983	6246
25	HEMBA1004995	F-HEMBA1004995	726	R-HEMBA1004995	6247
	HEMBA1005008	F-HEMBA1005008	727	R-HEMBA1005008	6248
	HEMBA1005009	F-HEMBA1005009	728	R-HEMBA1005009	6249
	HEMBA1005019	F-HEMBA1005019	729	R-HEMBA1005019	6250
30	HEMBA1005029	F-HEMBA1005029	730	R-HEMBA1005029	6251
	HEMBA1005035	F-HEMBA1005035	731	R-HEMBA1005035	6252
	HEMBA1005039	F-HEMBA1005039	732	R-HEMBA1005039	6253
	HEMBA1005047	F-HEMBA1005047	733	R-HEMBA1005047	6254
	HEMBA1005050	F-HEMBA1005050	734	R-HEMBA1005050	6255
35	HEMBA1005062	F-HEMBA1005062	735	R-HEMBA1005062	6256
	HEMBA1005066	F-HEMBA1005066	736	R-HEMBA1005066	6257
	HEMBA1005075	F-HEMBA1005075	737	R-HEMBA1005075	6258
	HEMBA1005079	F-HEMBA1005079	738	R-HEMBA1005079	6259
40	HEMBA1005083	F-HEMBA1005083	739	R-HEMBA1005083	6260
	HEMBA1005101	F-HEMBA1005101	740	R-HEMBA1005101	6261
	HEMBA1005113	F-HEMBA1005113	741	R-HEMBA1005113	6262
	HEMBA1005123	F-HEMBA1005123	742	R-HEMBA1005123	6263
45	HEMBA1005133	F-HEMBA1005133	743	R-HEMBA1005133	6264
	HEMBA1005149	F-HEMBA1005149	744	R-HEMBA1005149	6265
	HEMBA1005152	F-HEMBA1005152	745	R-HEMBA1005152	6266
	HEMBA1005159	F-HEMBA1005159	746	R-HEMBA1005159	6267
	HEMBA1005185	F-HEMBA1005185	747	R-HEMBA1005185	6268
50	HEMBA1005201	F-HEMBA1005201	748	R-HEMBA1005201	6269
	HEMBA1005202	F-HEMBA1005202	749	R-HEMBA1005202	6270
	HEMBA1005206	F-HEMBA1005206	750		
55	HEMBA1005219	F-HEMBA1005219	751	R-HEMBA1005219	6271

	HEMBA1005223	F-HEMBA1005223	752	R-HEMBA1005223	6272
	HEMBA1005232	F-HEMBA1005232	753	R-HEMBA1005232	6273
	HEMBA1005241	F-HEMBA1005241	754	R-HEMBA1005241	6274
5	HEMBA1005244	F-HEMBA1005244	755	R-HEMBA1005244	6275
	HEMBA1005251	F-HEMBA1005251	756	R-HEMBA1005251	6276
	HEMBA1005252	F-HEMBA1005252	757	R-HEMBA1005252	6277
	HEMBA1005274	F-HEMBA1005274	758	R-HEMBA1005274	6278
10	HEMBA1005275	F-HEMBA1005275	759	R-HEMBA1005275	6279
	HEMBA1005293	F-HEMBA1005293	760	R-HEMBA1005293	6280
	HEMBA1005296	F-HEMBA1005296	761	R-HEMBA1005296	6281
	HEMBA1005304	F-HEMBA1005304	762	R-HEMBA1005304	6282
15	HEMBA1005311	F-HEMBA1005311	763	R-HEMBA1005311	6283
	HEMBA1005314	F-HEMBA1005314	764	R-HEMBA1005314	6284
	HEMBA1005315	F-HEMBA1005315	765	R-HEMBA1005315	6285
	HEMBA1005318	F-HEMBA1005318	766	R-HEMBA1005318	6286
	HEMBA1005331	F-HEMBA1005331	767	R-HEMBA1005331	6287
20	HEMBA1005338	F-HEMBA1005338	768		
	HEMBA1005353	F-HEMBA1005353	769	R-HEMBA1005353	6288
	HEMBA1005359	F-HEMBA1005359	770	R-HEMBA1005359	6289
	HEMBA1005367	F-HEMBA1005367	771	R-HEMBA1005367	6290
25	HEMBA1005372	F-HEMBA1005372	772	R-HEMBA1005372	6291
	HEMBA1005374	F-HEMBA1005374	773	R-HEMBA1005374	6292
	HEMBA1005382	F-HEMBA1005382	774		
	HEMBA1005389	F-HEMBA1005389	775	R-HEMBA1005389	6293
30	HEMBA1005394	F-HEMBA1005394	776	R-HEMBA1005394	6294
	HEMBA1005403	F-HEMBA1005403	777	R-HEMBA1005403	6295
	HEMBA1005408	F-HEMBA1005408	778	R-HEMBA1005408	6296
	HEMBA1005410	F-HEMBA1005410	779	R-HEMBA1005410	6297
35	HEMBA1005411	F-HEMBA1005411	780	R-HEMBA1005411	6298
	HEMBA1005423	F-HEMBA1005423	781	R-HEMBA1005423	6299
	HEMBA1005426	F-HEMBA1005426	782	R-HEMBA1005426	6300
	HEMBA1005443	F-HEMBA1005443	783	R-HEMBA1005443	6301
	HEMBA1005447	F-HEMBA1005447	784	R-HEMBA1005447	6302
40	HEMBA1005468	F-HEMBA1005468	785	R-HEMBA1005468	6303
	HEMBA1005469	F-HEMBA1005469	786	R-HEMBA1005469	6304
	HEMBA1005472	F-HEMBA1005472	787	R-HEMBA1005472	6305
	HEMBA1005474	F-HEMBA1005474	788		
45	HEMBA1005475	F-HEMBA1005475	789	R-HEMBA1005475	6306
	HEMBA1005497	F-HEMBA1005497	790	R-HEMBA1005497	6307
	HEMBA1005500	F-HEMBA1005500	791	R-HEMBA1005500	6308
	HEMBA1005506	F-HEMBA1005506	792	R-HEMBA1005506	6309
50	HEMBA1005508	F-HEMBA1005508	793	R-HEMBA1005508	6310
	HEMBA1005511	F-HEMBA1005511	794	R-HEMBA1005511	6311
	HEMBA1005513	F-HEMBA1005513	795		
	HEMBA1005517	F-HEMBA1005517	796	R-HEMBA1005517	6312
55	HEMBA1005518	F-HEMBA1005518	797	R-HEMBA1005518	6313

	HEMBA1005520	F-HEMBA1005520	798	R-HEMBA1005520	6314
	HEMBA1005526	F-HEMBA1005526	799	R-HEMBA1005526	6315
	HEMBA1005528	F-HEMBA1005528	800	R-HEMBA1005528	6316
5	HEMBA1005530	F-HEMBA1005530	801	R-HEMBA1005530	6317
	HEMBA1005548	F-HEMBA1005548	802	R-HEMBA1005548	6318
	HEMBA1005552	F-HEMBA1005552	803	R-HEMBA1005552	6319
	HEMBA1005558	F-HEMBA1005558	804	R-HEMBA1005558	6320
10	HEMBA1005568	F-HEMBA1005568	805	R-HEMBA1005568	6321
	HEMBA1005570	F-HEMBA1005570	806	R-HEMBA1005570	6322
	HEMBA1005576	F-HEMBA1005576	807	R-HEMBA1005576	6323
	HEMBA1005577	F-HEMBA1005577	808	R-HEMBA1005577	6324
	HEMBA1005581	F-HEMBA1005581	809	R-HEMBA1005581	6325
15	HEMBA1005582	F-HEMBA1005582	810	R-HEMBA1005582	6326
	HEMBA1005583	F-HEMBA1005583	811	R-HEMBA1005583	6327
	HEMBA1005588	F-HEMBA1005588	812	R-HEMBA1005588	6328
	HEMBA1005593	F-HEMBA1005593	813	R-HEMBA1005593	6329
20	HEMBA1005595	F-HEMBA1005595	814	R-HEMBA1005595	6330
	HEMBA1005606	F-HEMBA1005606	815	R-HEMBA1005606	6331
	HEMBA1005609	F-HEMBA1005609	816	R-HEMBA1005609	6332
	HEMBA1005616	F-HEMBA1005616	817	R-HEMBA1005616	6333
25	HEMBA1005621	F-HEMBA1005621	818	R-HEMBA1005621	6334
	HEMBA1005627	F-HEMBA1005627	819	R-HEMBA1005627	6335
	HEMBA1005631	F-HEMBA1005631	820	R-HEMBA1005631	6336
	HEMBA1005632	F-HEMBA1005632	821	R-HEMBA1005632	6337
30	HEMBA1005634	F-HEMBA1005634	822	R-HEMBA1005634	6338
	HEMBA1005666	F-HEMBA1005666	823	R-HEMBA1005666	6339
	HEMBA1005670	F-HEMBA1005670	824	R-HEMBA1005670	6340
	HEMBA1005679	F-HEMBA1005679	825	R-HEMBA1005679	6341
	HEMBA1005680	F-HEMBA1005680	826	R-HEMBA1005680	6342
35	HEMBA1005685	F-HEMBA1005685	827	R-HEMBA1005685	6343
	HEMBA1005699	F-HEMBA1005699	828	R-HEMBA1005699	6344
	HEMBA1005705	F-HEMBA1005705	829	R-HEMBA1005705	6345
	HEMBA1005717	F-HEMBA1005717	830	R-HEMBA1005717	6346
40	HEMBA1005732	F-HEMBA1005732	831	R-HEMBA1005732	6347
	HEMBA1005737	F-HEMBA1005737	832	R-HEMBA1005737	6348
	HEMBA1005746	F-HEMBA1005746	833	R-nnnnnnnnnnnn	6349
	HEMBA1005755	F-HEMBA1005755	834	R-HEMBA1005755	6350
45	HEMBA1005765	F-HEMBA1005765	835	R-HEMBA1005765	6351
	HEMBA1005780	F-HEMBA1005780	836	R-HEMBA1005780	6352
	HEMBA1005813	F-HEMBA1005813	837	R-HEMBA1005813	6353
	HEMBA1005815	F-HEMBA1005815	838	R-HEMBA1005815	6354
	HEMBA1005822	F-HEMBA1005822	839	R-HEMBA1005822	6355
50	HEMBA1005829	F-HEMBA1005829	840	R-HEMBA1005829	6356
	HEMBA1005834	F-HEMBA1005834	841	R-HEMBA1005834	6357
	HEMBA1005852	F-HEMBA1005852	842	R-HEMBA1005852	6358
55	HEMBA1005853	F-HEMBA1005853	843	R-HEMBA1005853	6359

	HEMBA1005884	F-HEMBA1005884	844	R-HEMBA1005884	6360
	HEMBA1005891	F-HEMBA1005891	845	R-HEMBA1005891	6361
	HEMBA1005894	F-HEMBA1005894	846	R-HEMBA1005894	6362
5	HEMBA1005909	F-HEMBA1005909	847	R-HEMBA1005909	6363
	HEMBA1005911	F-HEMBA1005911	848	R-HEMBA1005911	6364
	HEMBA1005921	F-HEMBA1005921	849	R-HEMBA1005921	6365
	HEMBA1005931	F-HEMBA1005931	850	R-HEMBA1005931	6366
10	HEMBA1005934	F-HEMBA1005934	851	R-HEMBA1005934	6367
	HEMBA1005962	F-HEMBA1005962	852	R-HEMBA1005962	6368
	HEMBA1005963	F-HEMBA1005963	853	R-HEMBA1005963	6369
	HEMBA1005990	F-HEMBA1005990	854	R-HEMBA1005990	6370
	HEMBA1005991	F-HEMBA1005991	855	R-HEMBA1005991	6371
15	HEMBA1005999	F-HEMBA1005999	856	R-HEMBA1005999	6372
	HEMBA1006002	F-HEMBA1006002	857	R-HEMBA1006002	6373
	HEMBA1006005	F-HEMBA1006005	858	R-HEMBA1006005	6374
	HEMBA1006031	F-HEMBA1006031	859	R-HEMBA1006031	6375
20	HEMBA1006035	F-HEMBA1006035	860	R-HEMBA1006035	6376
	HEMBA1006036	F-HEMBA1006036	861	R-HEMBA1006036	6377
	HEMBA1006042	F-HEMBA1006042	862	R-HEMBA1006042	6378
	HEMBA1006067	F-HEMBA1006067	863	R-HEMBA1006067	6379
25	HEMBA1006081	F-HEMBA1006081	864	R-HEMBA1006081	6380
	HEMBA1006090	F-HEMBA1006090	865	R-HEMBA1006090	6381
	HEMBA1006091	F-HEMBA1006091	866	R-HEMBA1006091	6382
	HEMBA1006100	F-HEMBA1006100	867	R-HEMBA1006100	6383
30	HEMBA1006108	F-HEMBA1006108	868	R-HEMBA1006108	6384
	HEMBA1006121	F-HEMBA1006121	869	R-HEMBA1006121	6385
	HEMBA1006124	F-HEMBA1006124	870	R-HEMBA1006124	6386
	HEMBA1006130	F-HEMBA1006130	871	R-HEMBA1006130	6387
35	HEMBA1006138	F-HEMBA1006138	872	R-HEMBA1006138	6388
	HEMBA1006142	F-HEMBA1006142	873	R-HEMBA1006142	6389
	HEMBA1006155	F-HEMBA1006155	874	R-HEMBA1006155	6390
	HEMBA1006158	F-HEMBA1006158	875	R-HEMBA1006158	6391
	HEMBA1006173	F-HEMBA1006173	876	R-HEMBA1006173	6392
40	HEMBA1006182	F-HEMBA1006182	877	R-HEMBA1006182	6393
	HEMBA1006198	F-HEMBA1006198	878	R-HEMBA1006198	6394
	HEMBA1006235	F-HEMBA1006235	879	R-HEMBA1006235	6395
	HEMBA1006248	F-HEMBA1006248	880	R-HEMBA1006248	6396
45	HEMBA1006252	F-HEMBA1006252	881	R-HEMBA1006252	6397
	HEMBA1006253	F-HEMBA1006253	882	R-HEMBA1006253	6398
	HEMBA1006259	F-HEMBA1006259	883	R-HEMBA1006259	6399
	HEMBA1006268	F-HEMBA1006268	884	R-HEMBA1006268	6400
50	HEMBA1006272	F-HEMBA1006272	885	R-HEMBA1006272	6401
	HEMBA1006278	F-HEMBA1006278	886	R-HEMBA1006278	6402
	HEMBA1006283	F-HEMBA1006283	887	R-HEMBA1006283	6403
	HEMBA1006284	F-HEMBA1006284	888	R-HEMBA1006284	6404
55	HEMBA1006291	F-HEMBA1006291	889	R-HEMBA1006291	6405

	HEMBA1006293	F-HEMBA1006293	890	R-HEMBA1006293	6406
	HEMBA1006309	F-HEMBA1006309	891	R-HEMBA1006309	6407
	HEMBA1006310	F-HEMBA1006310	892	R-HEMBA1006310	6408
5	HEMBA1006328	F-HEMBA1006328	893	R-HEMBA1006328	6409
	HEMBA1006334	F-HEMBA1006334	894	R-HEMBA1006334	6410
	HEMBA1006344	F-HEMBA1006344	895	R-HEMBA1006344	6411
	HEMBA1006347	F-HEMBA1006347	896	R-HEMBA1006347	6412
10	HEMBA1006349	F-HEMBA1006349	897	R-HEMBA1006349	6413
	HEMBA1006359	F-HEMBA1006359	898	R-HEMBA1006359	6414
	HEMBA1006364	F-HEMBA1006364	899	R-HEMBA1006364	6415
	HEMBA1006377	F-HEMBA1006377	900	R-HEMBA1006377	6416
15	HEMBA1006380	F-HEMBA1006380	901	R-HEMBA1006380	6417
	HEMBA1006381	F-HEMBA1006381	902	R-HEMBA1006381	6418
	HEMBA1006398	F-HEMBA1006398	903	R-HEMBA1006398	6419
	HEMBA1006416	F-HEMBA1006416	904	R-HEMBA1006416	6420
	HEMBA1006419	F-HEMBA1006419	905	R-HEMBA1006419	6421
20	HEMBA1006421	F-HEMBA1006421	906	R-HEMBA1006421	6422
	HEMBA1006424	F-HEMBA1006424	907	R-HEMBA1006424	6423
	HEMBA1006426	F-HEMBA1006426	908	R-HEMBA1006426	6424
	HEMBA1006438	F-HEMBA1006438	909	R-HEMBA1006438	6425
25	HEMBA1006445	F-HEMBA1006445	910	R-HEMBA1006445	6426
	HEMBA1006446	F-HEMBA1006446	911	R-HEMBA1006446	6427
	HEMBA1006461	F-HEMBA1006461	912	R-HEMBA1006461	6428
	HEMBA1006467	F-HEMBA1006467	913	R-HEMBA1006467	6429
30	HEMBA1006471	F-HEMBA1006471	914	R-HEMBA1006471	6430
	HEMBA1006474	F-HEMBA1006474	915	R-HEMBA1006474	6431
	HEMBA1006483	F-HEMBA1006483	916	R-HEMBA1006483	6432
	HEMBA1006485	F-HEMBA1006485	917	R-HEMBA1006485	6433
	HEMBA1006486	F-HEMBA1006486	918	R-HEMBA1006486	6434
35	HEMBA1006489	F-HEMBA1006489	919	R-HEMBA1006489	6435
	HEMBA1006492	F-HEMBA1006492	920	R-HEMBA1006492	6436
	HEMBA1006494	F-HEMBA1006494	921	R-HEMBA1006494	6437
	HEMBA1006497	F-HEMBA1006497	922	R-HEMBA1006497	6438
40	HEMBA1006502	F-HEMBA1006502	923	R-HEMBA1006502	6439
	HEMBA1006507	F-HEMBA1006507	924	R-HEMBA1006507	6440
	HEMBA1006521	F-HEMBA1006521	925	R-HEMBA1006521	6441
	HEMBA1006530	F-HEMBA1006530	926	R-HEMBA1006530	6442
	HEMBA1006535	F-HEMBA1006535	927	R-HEMBA1006535	6443
45	HEMBA1006540	F-HEMBA1006540	928	R-HEMBA1006540	6444
	HEMBA1006546	F-HEMBA1006546	929	R-HEMBA1006546	6445
	HEMBA1006559	F-HEMBA1006559	930	R-HEMBA1006559	6446
	HEMBA1006562	F-HEMBA1006562	931	R-HEMBA1006562	6447
50	HEMBA1006566	F-HEMBA1006566	932	R-HEMBA1006566	6448
	HEMBA1006569	F-HEMBA1006569	933	R-HEMBA1006569	6449
	HEMBA1006579	F-HEMBA1006579	934	R-HEMBA1006579	6450
55	HEMBA1006583	F-HEMBA1006583	935	R-HEMBA1006583	6451



	HEMBA1006595	F-HEMBA1006595	936	R-HEMBA1006595	6452
	HEMBA1006597	F-HEMBA1006597	937	R-HEMBA1006597	6453
	HEMBA1006612	F-HEMBA1006612	938	R-HEMBA1006612	6454
5	HEMBA1006617	F-HEMBA1006617	939	R-nnnnnnnnnnn	6455
	HEMBA1006624	F-HEMBA1006624	940	R-HEMBA1006624	6456
	HEMBA1006631	F-HEMBA1006631	941	R-HEMBA1006631	6457
	HEMBA1006635	F-HEMBA1006635	942	R-HEMBA1006635	6458
10	HEMBA1006639	F-HEMBA1006639	943	R-HEMBA1006639	6459
	HEMBA1006643	F-HEMBA1006643	944	R-HEMBA1006643	6460
	HEMBA1006648	F-HEMBA1006648	945	R-HEMBA1006648	6461
	HEMBA1006652	F-HEMBA1006652	946	R-HEMBA1006652	6462
	HEMBA1006653	F-HEMBA1006653	947	R-HEMBA1006653	6463
15	HEMBA1006659	F-HEMBA1006659	948		
	HEMBA1006665	F-HEMBA1006665	949	R-HEMBA1006665	6464
	HEMBA1006674	F-HEMBA1006674	950	R-HEMBA1006674	6465
	HEMBA1006676	F-HEMBA1006676	951	R-HEMBA1006676	6466
20	HEMBA1006682	F-HEMBA1006682	952	R-HEMBA1006682	6467
	HEMBA1006695	F-HEMBA1006695	953	R-HEMBA1006695	6468
	HEMBA1006696	F-HEMBA1006696	954	R-HEMBA1006696	6469
	HEMBA1006708	F-HEMBA1006708	955	R-HEMBA1006708	6470
25	HEMBA1006709	F-HEMBA1006709	956	R-HEMBA1006709	6471
	HEMBA1006717	F-HEMBA1006717	957	R-HEMBA1006717	6472
	HEMBA1006737	F-HEMBA1006737	958	R-HEMBA1006737	6473
	HEMBA1006744	F-HEMBA1006744	959	R-HEMBA1006744	6474
30	HEMBA1006754	F-HEMBA1006754	960	R-HEMBA1006754	6475
	HEMBA1006758	F-HEMBA1006758	961	R-HEMBA1006758	6476
	HEMBA1006767	F-HEMBA1006767	962	R-HEMBA1006767	6477
	HEMBA1006779	F-HEMBA1006779	963	R-HEMBA1006779	6478
35	HEMBA1006780	F-HEMBA1006780	964	R-HEMBA1006780	6479
	HEMBA1006789	F-HEMBA1006789	965	R-HEMBA1006789	6480
	HEMBA1006795	F-HEMBA1006795	966	R-HEMBA1006795	6481
	HEMBA1006796	F-HEMBA1006796	967	R-HEMBA1006796	6482
	HEMBA1006807	F-HEMBA1006807	968	R-HEMBA1006807	6483
40	HEMBA1006821	F-HEMBA1006821	969	R-HEMBA1006821	6484
	HEMBA1006824	F-HEMBA1006824	970	R-HEMBA1006824	6485
	HEMBA1006832	F-HEMBA1006832	971	R-HEMBA1006832	6486
	HEMBA1006849	F-HEMBA1006849	972	R-HEMBA1006849	6487
	HEMBA1006865	F-HEMBA1006865	973	R-HEMBA1006865	6488
45	HEMBA1006877	F-HEMBA1006877	974	R-nnnnnnnnnnn	6489
	HEMBA1006885	F-HEMBA1006885	975	R-HEMBA1006885	6490
	HEMBA1006900	F-HEMBA1006900	976	R-HEMBA1006900	6491
	HEMBA1006914	F-HEMBA1006914	977		
50	HEMBA1006921	F-HEMBA1006921	978	R-HEMBA1006921	6492
	HEMBA1006926	F-HEMBA1006926	979	R-HEMBA1006926	6493
	HEMBA1006929	F-HEMBA1006929	980	R-HEMBA1006929	6494
	HEMBA1006936	F-HEMBA1006936	981	R-HEMBA1006936	6495

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	HEMBA1006938	F-HEMBA1006938	982	R-HEMBA1006938	6496
	HEMBA1006941	F-HEMBA1006941	983	R-HEMBA1006941	6497
	HEMBA1006949	F-HEMBA1006949	984	R-HEMBA1006949	6498
5	HEMBA1006973	F-HEMBA1006973	985	R-HEMBA1006973	6499
	HEMBA1006976	F-HEMBA1006976	986	R-HEMBA1006976	6500
	HEMBA1006993	F-HEMBA1006993	987	R-HEMBA1006993	6501
	HEMBA1006996	F-HEMBA1006996	988	R-HEMBA1006996	6502
10	HEMBA1007002	F-HEMBA1007002	989	R-HEMBA1007002	6503
	HEMBA1007017	F-HEMBA1007017	990	R-HEMBA1007017	6504
	HEMBA1007018	F-HEMBA1007018	991	R-HEMBA1007018	6505
	HEMBA1007045	F-HEMBA1007045	992	R-HEMBA1007045	6506
15	HEMBA1007051	F-HEMBA1007051	993	R-HEMBA1007051	6507
	HEMBA1007052	F-HEMBA1007052	994	R-HEMBA1007052	6508
	HEMBA1007062	F-HEMBA1007062	995	R-HEMBA1007062	6509
	HEMBA1007066	F-HEMBA1007066	996	R-HEMBA1007066	6510
	HEMBA1007073	F-HEMBA1007073	997	R-HEMBA1007073	6511
20	HEMBA1007078	F-HEMBA1007078	998	R-HEMBA1007078	6512
	HEMBA1007080	F-HEMBA1007080	999		
	HEMBA1007085	F-HEMBA1007085	1000	R-HEMBA1007085	6513
	HEMBA1007087	F-HEMBA1007087	1001	R-HEMBA1007087	6514
25	HEMBA1007112	F-HEMBA1007112	1002	R-HEMBA1007112	6515
	HEMBA1007113	F-HEMBA1007113	1003	R-HEMBA1007113	6516
	HEMBA1007121	F-HEMBA1007121	1004		
	HEMBA1007129	F-HEMBA1007129	1005	R-HEMBA1007129	6517
30	HEMBA1007147	F-HEMBA1007147	1006	R-HEMBA1007147	6518
	HEMBA1007149	F-HEMBA1007149	1007	R-HEMBA1007149	6519
	HEMBA1007151	F-HEMBA1007151	1008	R-HEMBA1007151	6520
	HEMBA1007174	F-HEMBA1007174	1009	R-nnnnnnnnnnnnn	6521
	HEMBA1007178	F-HEMBA1007178	1010	R-HEMBA1007178	6522
35	HEMBA1007194	F-HEMBA1007194	1011	R-HEMBA1007194	6523
	HEMBA1007203	F-HEMBA1007203	1012	R-HEMBA1007203	6524
	HEMBA1007206	F-HEMBA1007206	1013	R-HEMBA1007206	6525
	HEMBA1007224	F-HEMBA1007224	1014	R-HEMBA1007224	6526
40	HEMBA1007243	F-HEMBA1007243	1015		
	HEMBA1007251	F-HEMBA1007251	1016	R-HEMBA1007251	6527
	HEMBA1007256	F-HEMBA1007256	1017	R-HEMBA1007256	6528
	HEMBA1007267	F-HEMBA1007267	1018	R-HEMBA1007267	6529
45	HEMBA1007273	F-HEMBA1007273	1019	R-HEMBA1007273	6530
	HEMBA1007279	F-HEMBA1007279	1020	R-HEMBA1007279	6531
	HEMBA1007281	F-HEMBA1007281	1021	R-HEMBA1007281	6532
	HEMBA1007288	F-HEMBA1007288	1022	R-HEMBA1007288	6533
	HEMBA1007300	F-HEMBA1007300	1023	R-HEMBA1007300	6534
50	HEMBA1007301	F-HEMBA1007301	1024	R-HEMBA1007301	6535
	HEMBA1007319	F-HEMBA1007319	1025	R-HEMBA1007319	6536
	HEMBA1007320	F-HEMBA1007320	1026	R-HEMBA1007320	6537
	HEMBA1007322	F-HEMBA1007322	1027	R-HEMBA1007322	6538

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	HEMBA1007327	F-HEMBA1007327	1028	R-HEMBA1007327	6539
	HEMBA1007341	F-HEMBA1007341	1029	R-HEMBA1007341	6540
	HEMBA1007342	F-HEMBA1007342	1030	R-HEMBA1007342	6541
5	HEMBA1007347	F-HEMBA1007347	1031	R-HEMBA1007347	6542
	HEMBB1000005	F-HEMBB1000005	1032	R-HEMBB1000005	6543
	HEMBB1000008	F-HEMBB1000008	1033	R-HEMBB1000008	6544
	HEMBB1000018	F-HEMBB1000018	1034	R-HEMBB1000018	6545
10	HEMBB1000024	F-HEMBB1000024	1035	R-HEMBB1000024	6546
	HEMBB1000025	F-HEMBB1000025	1036	R-HEMBB1000025	6547
	HEMBB1000030	F-HEMBB1000030	1037	R-HEMBB1000030	6548
	HEMBB1000036	F-HEMBB1000036	1038	R-HEMBB1000036	6549
	HEMBB1000037	F-HEMBB1000037	1039	R-HEMBB1000037	6550
15	HEMBB1000039	F-HEMBB1000039	1040	R-HEMBB1000039	6551
	HEMBB1000044	F-HEMBB1000044	1041	R-HEMBB1000044	6552
	HEMBB1000048	F-HEMBB1000048	1042	R-HEMBB1000048	6553
	HEMBB1000050	F-HEMBB1000050	1043	R-HEMBB1000050	6554
20	HEMBB1000054	F-HEMBB1000054	1044	R-HEMBB1000054	6555
	HEMBB1000055	F-HEMBB1000055	1045	R-HEMBB1000055	6556
	HEMBB1000059	F-HEMBB1000059	1046	R-HEMBB1000059	6557
	HEMBB1000083	F-HEMBB1000083	1047	R-HEMBB1000083	6558
25	HEMBB1000089	F-HEMBB1000089	1048	R-HEMBB1000089	6559
	HEMBB1000099	F-HEMBB1000099	1049	R-HEMBB1000099	6560
	HEMBB1000103	F-HEMBB1000103	1050	R-HEMBB1000103	6561
	HEMBB1000113	F-HEMBB1000113	1051	R-HEMBB1000113	6562
	HEMBB1000119	F-HEMBB1000119	1052	R-HEMBB1000119	6563
30	HEMBB1000136	F-HEMBB1000136	1053	R-HEMBB1000136	6564
	HEMBB1000141	F-HEMBB1000141	1054	R-HEMBB1000141	6565
	HEMBB1000144	F-HEMBB1000144	1055	R-HEMBB1000144	6566
	HEMBB1000173	F-HEMBB1000173	1056	R-HEMBB1000173	6567
35	HEMBB1000175	F-HEMBB1000175	1057	R-HEMBB1000175	6568
	HEMBB1000198	F-HEMBB1000198	1058	R-HEMBB1000198	6569
	HEMBB1000215	F-HEMBB1000215	1059	R-HEMBB1000215	6570
	HEMBB1000217	F-HEMBB1000217	1060	R-HEMBB1000217	6571
40	HEMBB1000218	F-HEMBB1000218	1061	R-HEMBB1000218	6572
	HEMBB1000226	F-HEMBB1000226	1062	R-HEMBB1000226	6573
	HEMBB1000240	F-HEMBB1000240	1063	R-HEMBB1000240	6574
	HEMBB1000244	F-HEMBB1000244	1064	R-HEMBB1000244	6575
	HEMBB1000250	F-HEMBB1000250	1065	R-HEMBB1000250	6576
45	HEMBB1000258	F-HEMBB1000258	1066	R-HEMBB1000258	6577
	HEMBB1000264	F-HEMBB1000264	1067	R-HEMBB1000264	6578
	HEMBB1000266	F-HEMBB1000266	1068	R-HEMBB1000266	6579
	HEMBB1000272	F-HEMBB1000272	1069	R-HEMBB1000272	6580
50	HEMBB1000274	F-HEMBB1000274	1070	R-HEMBB1000274	6581
	HEMBB1000284	F-HEMBB1000284	1071	R-HEMBB1000284	6582
	HEMBB1000307	F-HEMBB1000307	1072	R-HEMBB1000307	6583
	HEMBB1000312	F-HEMBB1000312	1073	R-HEMBB1000312	6584

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	HEMBB1000317	F-HEMBB1000317	1074	R-HEMBB1000317	6585
	HEMBB1000318	F-HEMBB1000318	1075	R-HEMBB1000318	6586
	HEMBB1000335	F-HEMBB1000335	1076	R-HEMBB1000335	6587
5	HEMBB1000336	F-HEMBB1000336	1077	R-HEMBB1000336	6588
	HEMBB1000337	F-HEMBB1000337	1078	R-HEMBB1000337	6589
	HEMBB1000338	F-HEMBB1000338	1079	R-HEMBB1000338	6590
	HEMBB1000339	F-HEMBB1000339	1080	R-HEMBB1000339	6591
10	HEMBB1000341	F-HEMBB1000341	1081	R-HEMBB1000341	6592
	HEMBB1000343	F-HEMBB1000343	1082	R-HEMBB1000343	6593
	HEMBB1000354	F-HEMBB1000354	1083	R-HEMBB1000354	6594
	HEMBB1000369	F-HEMBB1000369	1084	R-HEMBB1000369	6595
15	HEMBB1000374	F-HEMBB1000374	1085	R-HEMBB1000374	6596
	HEMBB1000376	F-HEMBB1000376	1086	R-HEMBB1000376	6597
	HEMBB1000391	F-HEMBB1000391	1087	R-HEMBB1000391	6598
	HEMBB1000399	F-HEMBB1000399	1088	R-HEMBB1000399	6599
	HEMBB1000402	F-HEMBB1000402	1089	R-HEMBB1000402	6600
20	HEMBB1000404	F-HEMBB1000404	1090	R-HEMBB1000404	6601
	HEMBB1000420	F-HEMBB1000420	1091	R-HEMBB1000420	6602
	HEMBB1000434	F-HEMBB1000434	1092	R-HEMBB1000434	6603
	HEMBB1000438	F-HEMBB1000438	1093	R-HEMBB1000438	6604
25	HEMBB1000441	F-HEMBB1000441	1094	R-HEMBB1000441	6605
	HEMBB1000449	F-HEMBB1000449	1095	R-HEMBB1000449	6606
	HEMBB1000455	F-HEMBB1000455	1096	R-HEMBB1000455	6607
	HEMBB1000472	F-HEMBB1000472	1097	R-HEMBB1000472	6608
30	HEMBB1000480	F-HEMBB1000480	1098	R-HEMBB1000480	6609
	HEMBB1000487	F-HEMBB1000487	1099	R-HEMBB1000487	6610
	HEMBB1000490	F-HEMBB1000490	1100	R-HEMBB1000490	6611
	HEMBB1000491	F-HEMBB1000491	1101	R-HEMBB1000491	6612
	HEMBB1000493	F-HEMBB1000493	1102	R-HEMBB1000493	6613
35	HEMBB1000510	F-HEMBB1000510	1103	R-HEMBB1000510	6614
	HEMBB1000518	F-HEMBB1000518	1104	R-HEMBB1000518	6615
	HEMBB1000523	F-HEMBB1000523	1105	R-HEMBB1000523	6616
	HEMBB1000530	F-HEMBB1000530	1106	R-HEMBB1000530	6617
40	HEMBB1000550	F-HEMBB1000550	1107	R-HEMBB1000550	6618
	HEMBB1000554	F-HEMBB1000554	1108	R-HEMBB1000554	6619
	HEMBB1000556	F-HEMBB1000556	1109	R-HEMBB1000556	6620
	HEMBB1000564	F-HEMBB1000564	1110	R-HEMBB1000564	6621
45	HEMBB1000573	F-HEMBB1000573	1111	R-HEMBB1000573	6622
	HEMBB1000575	F-HEMBB1000575	1112	R-HEMBB1000575	6623
	HEMBB1000586	F-HEMBB1000586	1113	R-HEMBB1000586	6624
	HEMBB1000589	F-HEMBB1000589	1114	R-HEMBB1000589	6625
	HEMBB1000591	F-HEMBB1000591	1115	R-HEMBB1000591	6626
50	HEMBB1000592	F-HEMBB1000592	1116	R-HEMBB1000592	6627
	HEMBB1000593	F-HEMBB1000593	1117		
	HEMBB1000598	F-HEMBB1000598	1118	R-HEMBB1000598	6628
55	HEMBB1000623	F-HEMBB1000623	1119	R-HEMBB1000623	6629

	HEMBS1000630	F-HEMBS1000630	1120	R-HEMBS1000630	6630
	HEMBS1000631	F-HEMBS1000631	1121	R-HEMBS1000631	6631
	HEMBS1000632	F-HEMBS1000632	1122	R-HEMBS1000632	6632
5	HEMBS1000637	F-HEMBS1000637	1123	R-HEMBS1000637	6633
	HEMBS1000638	F-HEMBS1000638	1124	R-HEMBS1000638	6634
	HEMBS1000643	F-HEMBS1000643	1125	R-HEMBS1000643	6635
	HEMBS1000649	F-HEMBS1000649	1126	R-HEMBS1000649	6636
10	HEMBS1000652	F-HEMBS1000652	1127	R-HEMBS1000652	6637
	HEMBS1000665	F-HEMBS1000665	1128	R-HEMBS1000665	6638
	HEMBS1000671	F-HEMBS1000671	1129	R-HEMBS1000671	6639
	HEMBS1000673	F-HEMBS1000673	1130	R-HEMBS1000673	6640
15	HEMBS1000684	F-HEMBS1000684	1131	R-HEMBS1000684	6641
	HEMBS1000693	F-HEMBS1000693	1132	R-nnnnnnnnnnnnn	6642
	HEMBS1000705	F-HEMBS1000705	1133	R-HEMBS1000705	6643
	HEMBS1000706	F-HEMBS1000706	1134	R-HEMBS1000706	6644
20	HEMBS1000709	F-HEMBS1000709	1135	R-HEMBS1000709	6645
	HEMBS1000725	F-HEMBS1000725	1136	R-HEMBS1000725	6646
	HEMBS1000726	F-HEMBS1000726	1137	R-HEMBS1000726	6647
	HEMBS1000738	F-HEMBS1000738	1138	R-HEMBS1000738	6648
	HEMBS1000749	F-HEMBS1000749	1139	R-HEMBS1000749	6649
25	HEMBS1000763	F-HEMBS1000763	1140	R-HEMBS1000763	6650
	HEMBS1000770	F-HEMBS1000770	1141	R-HEMBS1000770	6651
	HEMBS1000774	F-HEMBS1000774	1142		
	HEMBS1000781	F-HEMBS1000781	1143	R-HEMBS1000781	6652
30	HEMBS1000789	F-HEMBS1000789	1144	R-HEMBS1000789	6653
	HEMBS1000790	F-HEMBS1000790	1145	R-HEMBS1000790	6654
	HEMBS1000794	F-HEMBS1000794	1146	R-HEMBS1000794	6655
	HEMBS1000807	F-HEMBS1000807	1147	R-HEMBS1000807	6656
35	HEMBS1000810	F-HEMBS1000810	1148	R-HEMBS1000810	6657
	HEMBS1000821	F-HEMBS1000821	1149	R-HEMBS1000821	6658
	HEMBS1000822	F-HEMBS1000822	1150	R-HEMBS1000822	6659
	HEMBS1000826	F-HEMBS1000826	1151	R-HEMBS1000826	6660
40	HEMBS1000827	F-HEMBS1000827	1152	R-HEMBS1000827	6661
	HEMBS1000831	F-HEMBS1000831	1153	R-HEMBS1000831	6662
	HEMBS1000835	F-HEMBS1000835	1154	R-HEMBS1000835	6663
	HEMBS1000840	F-HEMBS1000840	1155	R-HEMBS1000840	6664
45	HEMBS1000848	F-HEMBS1000848	1156	R-HEMBS1000848	6665
	HEMBS1000852	F-HEMBS1000852	1157	R-HEMBS1000852	6666
	HEMBS1000870	F-HEMBS1000870	1158	R-HEMBS1000870	6667
	HEMBS1000876	F-HEMBS1000876	1159	R-HEMBS1000876	6668
	HEMBS1000883	F-HEMBS1000883	1160	R-HEMBS1000883	6669
50	HEMBS1000887	F-HEMBS1000887	1161	R-HEMBS1000887	6670
	HEMBS1000888	F-HEMBS1000888	1162	R-HEMBS1000888	6671
	HEMBS1000890	F-HEMBS1000890	1163	R-HEMBS1000890	6672
	HEMBS1000893	F-HEMBS1000893	1164	R-HEMBS1000893	6673
55	HEMBS1000908	F-HEMBS1000908	1165	R-HEMBS1000908	6674

	HEMBB1000910	F-HEMBB1000910	1166	R-HEMBB1000910	6675
	HEMBB1000913	F-HEMBB1000913	1167	R-HEMBB1000913	6676
	HEMBB1000915	F-HEMBB1000915	1168	R-HEMBB1000915	6677
5	HEMBB1000917	F-HEMBB1000917	1169	R-HEMBB1000917	6678
	HEMBB1000927	F-HEMBB1000927	1170	R-HEMBB1000927	6679
	HEMBB1000947	F-HEMBB1000947	1171	R-HEMBB1000947	6680
	HEMBB1000959	F-HEMBB1000959	1172	R-HEMBB1000959	6681
10	HEMBB1000973	F-HEMBB1000973	1173	R-HEMBB1000973	6682
	HEMBB1000975	F-HEMBB1000975	1174	R-HEMBB1000975	6683
	HEMBB1000981	F-HEMBB1000981	1175	R-HEMBB1000981	6684
	HEMBB1000985	F-HEMBB1000985	1176	R-HEMBB1000985	6685
15	HEMBB1000991	F-HEMBB1000991	1177	R-HEMBB1000991	6686
	HEMBB1000996	F-HEMBB1000996	1178	R-HEMBB1000996	6687
	HEMBB1001004	F-HEMBB1001004	1179	R-HEMBB1001004	6688
	HEMBB1001008	F-HEMBB1001008	1180	R-HEMBB1001008	6689
20	HEMBB1001011	F-HEMBB1001011	1181	R-HEMBB1001011	6690
	HEMBB1001014	F-HEMBB1001014	1182	R-HEMBB1001014	6691
	HEMBB1001020	F-HEMBB1001020	1183	R-HEMBB1001020	6692
	HEMBB1001024	F-HEMBB1001024	1184	R-HEMBB1001024	6693
	HEMBB1001037	F-HEMBB1001037	1185	R-HEMBB1001037	6694
25	HEMBB1001047	F-HEMBB1001047	1186	R-HEMBB1001047	6695
	HEMBB1001051	F-HEMBB1001051	1187	R-HEMBB1001051	6696
	HEMBB1001056	F-HEMBB1001056	1188	R-HEMBB1001056	6697
	HEMBB1001058	F-HEMBB1001058	1189	R-HEMBB1001058	6698
30	HEMBB1001060	F-HEMBB1001060	1190	R-HEMBB1001060	6699
	HEMBB1001063	F-HEMBB1001063	1191	R-HEMBB1001063	6700
	HEMBB1001068	F-HEMBB1001068	1192	R-HEMBB1001068	6701
	HEMBB1001096	F-HEMBB1001096	1193	R-HEMBB1001096	6702
35	HEMBB1001102	F-HEMBB1001102	1194	R-HEMBB1001102	6703
	HEMBB1001105	F-HEMBB1001105	1195	R-HEMBB1001105	6704
	HEMBB1001112	F-HEMBB1001112	1196		
	HEMBB1001114	F-HEMBB1001114	1197	R-HEMBB1001114	6705
40	HEMBB1001117	F-HEMBB1001117	1198	R-HEMBB1001117	6706
	HEMBB1001119	F-HEMBB1001119	1199	R-HEMBB1001119	6707
	HEMBB1001126	F-HEMBB1001126	1200	R-HEMBB1001126	6708
	HEMBB1001133	F-HEMBB1001133	1201	R-HEMBB1001133	6709
45	HEMBB1001137	F-HEMBB1001137	1202	R-HEMBB1001137	6710
	HEMBB1001142	F-HEMBB1001142	1203	R-HEMBB1001142	6711
	HEMBB1001151	F-HEMBB1001151	1204	R-HEMBB1001151	6712
	HEMBB1001153	F-HEMBB1001153	1205	R-HEMBB1001153	6713
	HEMBB1001169	F-HEMBB1001169	1206	R-HEMBB1001169	6714
50	HEMBB1001175	F-HEMBB1001175	1207	R-nnnnnnnnnnn	6715
	HEMBB1001177	F-HEMBB1001177	1208	R-HEMBB1001177	6716
	HEMBB1001182	F-HEMBB1001182	1209	R-HEMBB1001182	6717
	HEMBB1001199	F-HEMBB1001199	1210	R-HEMBB1001199	6718
55	HEMBB1001208	F-HEMBB1001208	1211	R-HEMBB1001208	6719

	HEMBB1001209	F-HEMBB1001209	1212	R-HEMBB1001209	6720
	HEMBB1001210	F-HEMBB1001210	1213	R-HEMBB1001210	6721
	HEMBB1001218	F-HEMBB1001218	1214	R-HEMBB1001218	6722
5	HEMBB1001221	F-HEMBB1001221	1215	R-HEMBB1001221	6723
	HEMBB1001234	F-HEMBB1001234	1216	R-HEMBB1001234	6724
	HEMBB1001242	F-HEMBB1001242	1217	R-HEMBB1001242	6725
	HEMBB1001249	F-HEMBB1001249	1218	R-HEMBB1001249	6726
10	HEMBB1001253	F-HEMBB1001253	1219	R-HEMBB1001253	6727
	HEMBB1001254	F-HEMBB1001254	1220	R-HEMBB1001254	6728
	HEMBB1001267	F-HEMBB1001267	1221	R-HEMBB1001267	6729
	HEMBB1001271	F-HEMBB1001271	1222	R-HEMBB1001271	6730
15	HEMBB1001282	F-HEMBB1001282	1223	R-HEMBB1001282	6731
	HEMBB1001288	F-HEMBB1001288	1224	R-HEMBB1001288	6732
	HEMBB1001289	F-HEMBB1001289	1225	R-HEMBB1001289	6733
	HEMBB1001294	F-HEMBB1001294	1226	R-HEMBB1001294	6734
20	HEMBB1001302	F-HEMBB1001302	1227	R-HEMBB1001302	6735
	HEMBB1001304	F-HEMBB1001304	1228	R-HEMBB1001304	6736
	HEMBB1001314	F-HEMBB1001314	1229	R-HEMBB1001314	6737
	HEMBB1001315	F-HEMBB1001315	1230	R-HEMBB1001315	6738
25	HEMBB1001317	F-HEMBB1001317	1231	R-HEMBB1001317	6739
	HEMBB1001326	F-HEMBB1001326	1232	R-HEMBB1001326	6740
	HEMBB1001331	F-HEMBB1001331	1233	R-HEMBB1001331	6741
	HEMBB1001335	F-HEMBB1001335	1234	R-HEMBB1001335	6742
30	HEMBB1001337	F-HEMBB1001337	1235	R-HEMBB1001337	6743
	HEMBB1001339	F-HEMBB1001339	1236	R-HEMBB1001339	6744
	HEMBB1001346	F-HEMBB1001346	1237	R-HEMBB1001346	6745
	HEMBB1001348	F-HEMBB1001348	1238	R-HEMBB1001348	6746
	HEMBB1001356	F-HEMBB1001356	1239	R-HEMBB1001356	6747
35	HEMBB1001364	F-HEMBB1001364	1240	R-HEMBB1001364	6748
	HEMBB1001366	F-HEMBB1001366	1241	R-HEMBB1001366	6749
	HEMBB1001367	F-HEMBB1001367	1242	R-HEMBB1001367	6750
	HEMBB1001369	F-HEMBB1001369	1243	R-HEMBB1001369	6751
40	HEMBB1001380	F-HEMBB1001380	1244	R-HEMBB1001380	6752
	HEMBB1001384	F-HEMBB1001384	1245	R-HEMBB1001384	6753
	HEMBB1001387	F-HEMBB1001387	1246	R-HEMBB1001387	6754
	HEMBB1001394	F-HEMBB1001394	1247	R-HEMBB1001394	6755
45	HEMBB1001410	F-HEMBB1001410	1248	R-HEMBB1001410	6756
	HEMBB1001424	F-HEMBB1001424	1249	R-HEMBB1001424	6757
	HEMBB1001426	F-HEMBB1001426	1250	R-HEMBB1001426	6758
	HEMBB1001429	F-HEMBB1001429	1251	R-HEMBB1001429	6759
50	HEMBB1001436	F-HEMBB1001436	1252	R-HEMBB1001436	6760
	HEMBB1001443	F-HEMBB1001443	1253	R-HEMBB1001443	6761
	HEMBB1001449	F-HEMBB1001449	1254	R-HEMBB1001449	6762
	HEMBB1001454	F-HEMBB1001454	1255	R-HEMBB1001454	6763
	HEMBB1001458	F-HEMBB1001458	1256	R-HEMBB1001458	6764
55	HEMBB1001463	F-HEMBB1001463	1257	R-HEMBB1001463	6765

	HEMBB1001464	F-HEMBB1001464	1258	R-HEMBB1001464	6766
	HEMBB1001482	F-HEMBB1001482	1259	R-HEMBB1001482	6767
	HEMBB1001500	F-HEMBB1001500	1260	R-HEMBB1001500	6768
5	HEMBB1001521	F-HEMBB1001521	1261	R-HEMBB1001521	6769
	HEMBB1001527	F-HEMBB1001527	1262	R-HEMBB1001527	6770
	HEMBB1001531	F-HEMBB1001531	1263	R-HEMBB1001531	6771
	HEMBB1001535	F-HEMBB1001535	1264	R-HEMBB1001535	6772
10	HEMBB1001536	F-HEMBB1001536	1265	R-HEMBB1001536	6773
	HEMBB1001537	F-HEMBB1001537	1266	R-HEMBB1001537	6774
	HEMBB1001555	F-HEMBB1001555	1267	R-HEMBB1001555	6775
	HEMBB1001562	F-HEMBB1001562	1268	R-HEMBB1001562	6776
15	HEMBB1001564	F-HEMBB1001564	1269	R-HEMBB1001564	6777
	HEMBB1001565	F-HEMBB1001565	1270	R-HEMBB1001565	6778
	HEMBB1001585	F-HEMBB1001585	1271	R-HEMBB1001585	6779
	HEMBB1001586	F-HEMBB1001586	1272	R-HEMBB1001586	6780
20	HEMBB1001588	F-HEMBB1001588	1273	R-HEMBB1001588	6781
	HEMBB1001603	F-HEMBB1001603	1274	R-HEMBB1001603	6782
	HEMBB1001618	F-HEMBB1001618	1275	R-HEMBB1001618	6783
	HEMBB1001619	F-HEMBB1001619	1276	R-HEMBB1001619	6784
25	HEMBB1001630	F-HEMBB1001630	1277	R-HEMBB1001630	6785
	HEMBB1001635	F-HEMBB1001635	1278	R-HEMBB1001635	6786
	HEMBB1001637	F-HEMBB1001637	1279	R-HEMBB1001637	6787
	HEMBB1001641	F-HEMBB1001641	1280	R-HEMBB1001641	6788
30	HEMBB1001653	F-HEMBB1001653	1281	R-HEMBB1001653	6789
	HEMBB1001665	F-HEMBB1001665	1282	R-HEMBB1001665	6790
	HEMBB1001668	F-HEMBB1001668	1283	R-HEMBB1001668	6791
	HEMBB1001673	F-HEMBB1001673	1284	R-HEMBB1001673	6792
	HEMBB1001684	F-HEMBB1001684	1285	R-HEMBB1001684	6793
35	HEMBB1001685	F-HEMBB1001685	1286	R-HEMBB1001685	6794
	HEMBB1001695	F-HEMBB1001695	1287	R-HEMBB1001695	6795
	HEMBB1001704	F-HEMBB1001704	1288	R-HEMBB1001704	6796
40	HEMBB1001706	F-HEMBB1001706	1289	R-HEMBB1001706	6797
	HEMBB1001707	F-HEMBB1001707	1290	R-HEMBB1001707	6798
	HEMBB1001717	F-HEMBB1001717	1291	R-HEMBB1001717	6799
	HEMBB1001735	F-HEMBB1001735	1292	R-HEMBB1001735	6800
	HEMBB1001736	F-HEMBB1001736	1293	R-HEMBB1001736	6801
45	HEMBB1001747	F-HEMBB1001747	1294	R-HEMBB1001747	6802
	HEMBB1001749	F-HEMBB1001749	1295	R-HEMBB1001749	6803
	HEMBB1001753	F-HEMBB1001753	1296	R-HEMBB1001753	6804
	HEMBB1001756	F-HEMBB1001756	1297	R-HEMBB1001756	6805
50	HEMBB1001760	F-HEMBB1001760	1298	R-HEMBB1001760	6806
	HEMBB1001762	F-HEMBB1001762	1299	R-HEMBB1001762	6807
	HEMBB1001785	F-HEMBB1001785	1300	R-HEMBB1001785	6808
	HEMBB1001797	F-HEMBB1001797	1301	R-HEMBB1001797	6809
	HEMBB1001802	F-HEMBB1001802	1302	R-HEMBB1001802	6810
55	HEMBB1001812	F-HEMBB1001812	1303	R-HEMBB1001812	6811



	HEMBB1001816	F-HEMBB1001816	1304	R-HEMBB1001816	6812
	HEMBB1001831	F-HEMBB1001831	1305	R-HEMBB1001831	6813
	HEMBB1001834	F-HEMBB1001834	1306		
5	HEMBB1001836	F-HEMBB1001836	1307	R-HEMBB1001836	6814
	HEMBB1001839	F-HEMBB1001839	1308	R-HEMBB1001839	6815
	HEMBB1001850	F-HEMBB1001850	1309	R-HEMBB1001850	6816
	HEMBB1001863	F-HEMBB1001863	1310	R-HEMBB1001863	6817
10	HEMBB1001867	F-HEMBB1001867	1311	R-HEMBB1001867	6818
	HEMBB1001868	F-HEMBB1001868	1312	R-HEMBB1001868	6819
	HEMBB1001869	F-HEMBB1001869	1313	R-HEMBB1001869	6820
	HEMBB1001872	F-HEMBB1001872	1314	R-HEMBB1001872	6821
15	HEMBB1001874	F-HEMBB1001874	1315	R-HEMBB1001874	6822
	HEMBB1001875	F-HEMBB1001875	1316	R-HEMBB1001875	6823
	HEMBB1001880	F-HEMBB1001880	1317	R-HEMBB1001880	6824
	HEMBB1001899	F-HEMBB1001899	1318	R-HEMBB1001899	6825
20	HEMBB1001905	F-HEMBB1001905	1319	R-HEMBB1001905	6826
	HEMBB1001906	F-HEMBB1001906	1320	R-HEMBB1001906	6827
	HEMBB1001908	F-HEMBB1001908	1321	R-HEMBB1001908	6828
	HEMBB1001910	F-HEMBB1001910	1322	R-HEMBB1001910	6829
25	HEMBB1001911	F-HEMBB1001911	1323	R-HEMBB1001911	6830
	HEMBB1001915	F-HEMBB1001915	1324	R-HEMBB1001915	6831
	HEMBB1001921	F-HEMBB1001921	1325	R-HEMBB1001921	6832
	HEMBB1001922	F-HEMBB1001922	1326	R-HEMBB1001922	6833
	HEMBB1001925	F-HEMBB1001925	1327	R-HEMBB1001925	6834
30	HEMBB1001930	F-HEMBB1001930	1328	R-HEMBB1001930	6835
	HEMBB1001944	F-HEMBB1001944	1329	R-HEMBB1001944	6836
	HEMBB1001945	F-HEMBB1001945	1330	R-HEMBB1001945	6837
	HEMBB1001947	F-HEMBB1001947	1331	R-HEMBB1001947	6838
35	HEMBB1001950	F-HEMBB1001950	1332	R-HEMBB1001950	6839
	HEMBB1001952	F-HEMBB1001952	1333	R-HEMBB1001952	6840
	HEMBB1001953	F-HEMBB1001953	1334	R-HEMBB1001953	6841
	HEMBB1001957	F-HEMBB1001957	1335	R-HEMBB1001957	6842
40	HEMBB1001962	F-HEMBB1001962	1336	R-HEMBB1001962	6843
	HEMBB1001967	F-HEMBB1001967	1337	R-HEMBB1001967	6844
	HEMBB1001973	F-HEMBB1001973	1338	R-HEMBB1001973	6845
	HEMBB1001983	F-HEMBB1001983	1339	R-HEMBB1001983	6846
45	HEMBB1001988	F-HEMBB1001988	1340	R-HEMBB1001988	6847
	HEMBB1001990	F-HEMBB1001990	1341	R-HEMBB1001990	6848
	HEMBB1001996	F-HEMBB1001996	1342	R-HEMBB1001996	6849
	HEMBB1001997	F-HEMBB1001997	1343	R-HEMBB1001997	6850
50	HEMBB1002002	F-HEMBB1002002	1344	R-HEMBB1002002	6851
	HEMBB1002005	F-HEMBB1002005	1345	R-HEMBB1002005	6852
	HEMBB1002009	F-HEMBB1002009	1346	R-HEMBB1002009	6853
	HEMBB1002015	F-HEMBB1002015	1347	R-HEMBB1002015	6854
	HEMBB1002042	F-HEMBB1002042	1348	R-HEMBB1002042	6855
55	HEMBB1002043	F-HEMBB1002043	1349	R-HEMBB1002043	6856

	HEMBB1002044	F-HEMBB1002044	1350	R-HEMBB1002044	6857
	HEMBB1002045	F-HEMBB1002045	1351	R-HEMBB1002045	6858
	HEMBB1002049	F-HEMBB1002049	1352	R-HEMBB1002049	6859
5	HEMBB1002050	F-HEMBB1002050	1353	R-HEMBB1002050	6860
	HEMBB1002068	F-HEMBB1002068	1354	R-HEMBB1002068	6861
	HEMBB1002069	F-HEMBB1002069	1355	R-HEMBB1002069	6862
	HEMBB1002092	F-HEMBB1002092	1356	R-HEMBB1002092	6863
10	HEMBB1002094	F-HEMBB1002094	1357	R-HEMBB1002094	6864
	HEMBB1002115	F-HEMBB1002115	1358	R-HEMBB1002115	6865
	HEMBB1002134	F-HEMBB1002134	1359		
	HEMBB1002139	F-HEMBB1002139	1360	R-HEMBB1002139	6866
15	HEMBB1002142	F-HEMBB1002142	1361	R-HEMBB1002142	6867
	HEMBB1002152	F-HEMBB1002152	1362	R-HEMBB1002152	6868
	HEMBB1002189	F-HEMBB1002189	1363	R-HEMBB1002189	6869
	HEMBB1002190	F-HEMBB1002190	1364	R-HEMBB1002190	6870
20	HEMBB1002193	F-HEMBB1002193	1365	R-HEMBB1002193	6871
	HEMBB1002217	F-HEMBB1002217	1366	R-HEMBB1002217	6872
	HEMBB1002218	F-HEMBB1002218	1367	R-HEMBB1002218	6873
	HEMBB1002232	F-HEMBB1002232	1368	R-HEMBB1002232	6874
25	HEMBB1002247	F-HEMBB1002247	1369	R-HEMBB1002247	6875
	HEMBB1002249	F-HEMBB1002249	1370	R-HEMBB1002249	6876
	HEMBB1002254	F-HEMBB1002254	1371	R-HEMBB1002254	6877
	HEMBB1002255	F-HEMBB1002255	1372	R-HEMBB1002255	6878
	HEMBB1002266	F-HEMBB1002266	1373	R-HEMBB1002266	6879
30	HEMBB1002280	F-HEMBB1002280	1374	R-HEMBB1002280	6880
	HEMBB1002300	F-HEMBB1002300	1375	R-HEMBB1002300	6881
	HEMBB1002306	F-HEMBB1002306	1376	R-HEMBB1002306	6882
	HEMBB1002327	F-HEMBB1002327	1377	R-HEMBB1002327	6883
35	HEMBB1002329	F-HEMBB1002329	1378	R-HEMBB1002329	6884
	HEMBB1002340	F-HEMBB1002340	1379	R-HEMBB1002340	6885
	HEMBB1002342	F-HEMBB1002342	1380	R-HEMBB1002342	6886
	HEMBB1002358	F-HEMBB1002358	1381	R-HEMBB1002358	6887
40	HEMBB1002359	F-HEMBB1002359	1382	R-HEMBB1002359	6888
	HEMBB1002364	F-HEMBB1002364	1383	R-HEMBB1002364	6889
	HEMBB1002371	F-HEMBB1002371	1384	R-HEMBB1002371	6890
	HEMBB1002381	F-HEMBB1002381	1385	R-HEMBB1002381	6891
45	HEMBB1002383	F-HEMBB1002383	1386	R-HEMBB1002383	6892
	HEMBB1002387	F-HEMBB1002387	1387	R-HEMBB1002387	6893
	HEMBB1002409	F-HEMBB1002409	1388		
	HEMBB1002415	F-HEMBB1002415	1389	R-HEMBB1002415	6894
	HEMBB1002425	F-HEMBB1002425	1390	R-HEMBB1002425	6895
50	HEMBB1002442	F-HEMBB1002442	1391	R-HEMBB1002442	6896
	HEMBB1002453	F-HEMBB1002453	1392	R-HEMBB1002453	6897
	HEMBB1002457	F-HEMBB1002457	1393	R-HEMBB1002457	6898
	HEMBB1002458	F-HEMBB1002458	1394	R-HEMBB1002458	6899
55	HEMBB1002477	F-HEMBB1002477	1395	R-HEMBB1002477	6900

	HEMBB1002489	F-HEMBB1002489	1396	R-HEMBB1002489	6901
	HEMBB1002492	F-HEMBB1002492	1397	R-HEMBB1002492	6902
	HEMBB1002495	F-HEMBB1002495	1398	R-HEMBB1002495	6903
5	HEMBB1002502	F-HEMBB1002502	1399	R-HEMBB1002502	6904
	HEMBB1002509	F-HEMBB1002509	1400	R-HEMBB1002509	6905
	HEMBB1002510	F-HEMBB1002510	1401	R-HEMBB1002510	6906
	HEMBB1002520	F-HEMBB1002520	1402	R-HEMBB1002520	6907
10	HEMBB1002522	F-HEMBB1002522	1403	R-HEMBB1002522	6908
	HEMBB1002531	F-HEMBB1002531	1404	R-HEMBB1002531	6909
	HEMBB1002534	F-HEMBB1002534	1405	R-HEMBB1002534	6910
	HEMBB1002545	F-HEMBB1002545	1406	R-HEMBB1002545	6911
15	HEMBB1002550	F-HEMBB1002550	1407	R-HEMBB1002550	6912
	HEMBB1002556	F-HEMBB1002556	1408	R-HEMBB1002556	6913
	HEMBB1002579	F-HEMBB1002579	1409	R-HEMBB1002579	6914
	HEMBB1002582	F-HEMBB1002582	1410	R-HEMBB1002582	6915
20	HEMBB1002590	F-HEMBB1002590	1411	R-HEMBB1002590	6916
	HEMBB1002596	F-HEMBB1002596	1412	R-HEMBB1002596	6917
	HEMBB1002600	F-HEMBB1002600	1413	R-HEMBB1002600	6918
	HEMBB1002601	F-HEMBB1002601	1414	R-HEMBB1002601	6919
25	HEMBB1002603	F-HEMBB1002603	1415	R-HEMBB1002603	6920
	HEMBB1002607	F-HEMBB1002607	1416	R-HEMBB1002607	6921
	HEMBB1002610	F-HEMBB1002610	1417	R-HEMBB1002610	6922
	HEMBB1002613	F-HEMBB1002613	1418	R-HEMBB1002613	6923
30	HEMBB1002614	F-HEMBB1002614	1419	R-HEMBB1002614	6924
	HEMBB1002617	F-HEMBB1002617	1420	R-HEMBB1002617	6925
	HEMBB1002623	F-HEMBB1002623	1421	R-HEMBB1002623	6926
	HEMBB1002635	F-HEMBB1002635	1422	R-HEMBB1002635	6927
	HEMBB1002664	F-HEMBB1002664	1423	R-HEMBB1002664	6928
35	HEMBB1002677	F-HEMBB1002677	1424	R-HEMBB1002677	6929
	HEMBB1002683	F-HEMBB1002683	1425	R-HEMBB1002683	6930
	HEMBB1002684	F-HEMBB1002684	1426	R-HEMBB1002684	6931
	HEMBB1002686	F-HEMBB1002686	1427	R-HEMBB1002686	6932
40	HEMBB1002692	F-HEMBB1002692	1428	R-HEMBB1002692	6933
	HEMBB1002697	F-HEMBB1002697	1429	R-HEMBB1002697	6934
	HEMBB1002699	F-HEMBB1002699	1430	R-HEMBB1002699	6935
	HEMBB1002702	F-HEMBB1002702	1431	R-HEMBB1002702	6936
45	HEMBB1002705	F-HEMBB1002705	1432	R-HEMBB1002705	6937
	HEMBB1002712	F-HEMBB1002712	1433	R-HEMBB1002712	6938
	MAMMA1000009	F-MAMMA1000009	1434	R-MAMMA1000009	6939
	MAMMA1000019	F-MAMMA1000019	1435	R-MAMMA1000019	6940
50	MAMMA1000020	F-MAMMA1000020	1436	R-MAMMA1000020	6941
	MAMMA1000025	F-MAMMA1000025	1437	R-MAMMA1000025	6942
	MAMMA1000043	F-MAMMA1000043	1438	R-MAMMA1000043	6943
	MAMMA1000045	F-MAMMA1000045	1439	R-MAMMA1000045	6944
	MAMMA1000055	F-MAMMA1000055	1440	R-MAMMA1000055	6945
55	MAMMA1000057	F-MAMMA1000057	1441	R-MAMMA1000057	6946

	MAMMA1000069	F-MAMMA1000069	1442	R-MAMMA1000069	6947
	MAMMA1000084	F-MAMMA1000084	1443	R-MAMMA1000084	6948
	MAMMA1000085	F-MAMMA1000085	1444	R-MAMMA1000085	6949
5	MAMMA1000092	F-MAMMA1000092	1445	R-MAMMA1000092	6950
	MAMMA1000103	F-MAMMA1000103	1446	R-MAMMA1000103	6951
	MAMMA1000117	F-MAMMA1000117	1447	R-MAMMA1000117	6952
	MAMMA1000129	F-MAMMA1000129	1448	R-MAMMA1000129	6953
10	MAMMA1000133	F-MAMMA1000133	1449	R-MAMMA1000133	6954
	MAMMA1000134	F-MAMMA1000134	1450	R-MAMMA1000134	6955
	MAMMA1000139	F-MAMMA1000139	1451	R-MAMMA1000139	6956
	MAMMA1000143	F-MAMMA1000143	1452	R-MAMMA1000143	6957
15	MAMMA1000155	F-MAMMA1000155	1453	R-MAMMA1000155	6958
	MAMMA1000163	F-MAMMA1000163	1454	R-MAMMA1000163	6959
	MAMMA1000171	F-MAMMA1000171	1455	R-MAMMA1000171	6960
	MAMMA1000173	F-MAMMA1000173	1456	R-MAMMA1000173	6961
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	MAMMA1000183	F-MAMMA1000183	1458	R-MAMMA1000183	6963
	MAMMA1000198	F-MAMMA1000198	1459	R-MAMMA1000198	6964
	MAMMA1000221	F-MAMMA1000221	1460	R-MAMMA1000221	6965
25	MAMMA1000227	F-MAMMA1000227	1461	R-MAMMA1000227	6966
	MAMMA1000241	F-MAMMA1000241	1462	R-MAMMA1000241	6967
	MAMMA1000251	F-MAMMA1000251	1463	R-MAMMA1000251	6968
	MAMMA1000254	F-MAMMA1000254	1464	R-MAMMA1000254	6969
30	MAMMA1000257	F-MAMMA1000257	1465	R-MAMMA1000257	6970
	MAMMA1000264	F-MAMMA1000264	1466	R-MAMMA1000264	6971
	MAMMA1000266	F-MAMMA1000266	1467	R-MAMMA1000266	6972
	MAMMA1000270	F-MAMMA1000270	1468	R-MAMMA1000270	6973
	MAMMA1000277	F-MAMMA1000277	1469	R-MAMMA1000277	6974
35	MAMMA1000278	F-MAMMA1000278	1470	R-MAMMA1000278	6975
	MAMMA1000279	F-MAMMA1000279	1471	R-MAMMA1000279	6976
	MAMMA1000284	F-MAMMA1000284	1472	R-MAMMA1000284	6977
	MAMMA1000287	F-MAMMA1000287	1473	R-MAMMA1000287	6978
40	MAMMA1000302	F-MAMMA1000302	1474	R-MAMMA1000302	6979
	MAMMA1000307	F-MAMMA1000307	1475	R-MAMMA1000307	6980
	MAMMA1000309	F-MAMMA1000309	1476	R-MAMMA1000309	6981
	MAMMA1000312	F-MAMMA1000312	1477	R-MAMMA1000312	6982
45	MAMMA1000313	F-MAMMA1000313	1478	R-MAMMA1000313	6983
	MAMMA1000331	F-MAMMA1000331	1479	R-MAMMA1000331	6984
	MAMMA1000339	F-MAMMA1000339	1480	R-MAMMA1000339	6985
	MAMMA1000340	F-MAMMA1000340	1481	R-MAMMA1000340	6986
50	MAMMA1000348	F-MAMMA1000348	1482	R-MAMMA1000348	6987
	MAMMA1000356	F-MAMMA1000356	1483	R-MAMMA1000356	6988
	MAMMA1000360	F-MAMMA1000360	1484	R-MAMMA1000360	6989
	MAMMA1000361	F-MAMMA1000361	1485	R-MAMMA1000361	6990
	MAMMA1000372	F-MAMMA1000372	1486	R-MAMMA1000372	6991
55	MAMMA1000385	F-MAMMA1000385	1487	R-MAMMA1000385	6992

	MAMMA1000388	F-MAMMA1000388	1488	R-MAMMA1000388	6993
	MAMMA1000395	F-MAMMA1000395	1489	R-MAMMA1000395	6994
	MAMMA1000402	F-MAMMA1000402	1490	R-MAMMA1000402	6995
5	MAMMA1000410	F-MAMMA1000410	1491	R-MAMMA1000410	6996
	MAMMA1000413	F-MAMMA1000413	1492	R-MAMMA1000413	6997
	MAMMA1000414	F-MAMMA1000414	1493	R-MAMMA1000414	6998
	MAMMA1000416	F-MAMMA1000416	1494	R-MAMMA1000416	6999
10	MAMMA1000421	F-MAMMA1000421	1495	R-MAMMA1000421	7000
	MAMMA1000422	F-MAMMA1000422	1496	R-MAMMA1000422	7001
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	MAMMA1000424	F-MAMMA1000424	1498	R-MAMMA1000424	7003
15	MAMMA1000429	F-MAMMA1000429	1499	R-MAMMA1000429	7004
	MAMMA1000431	F-MAMMA1000431	1500	R-MAMMA1000431	7005
	MAMMA1000444	F-MAMMA1000444	1501	R-MAMMA1000444	7006
	MAMMA1000446	F-MAMMA1000446	1502	R-MAMMA1000446	7007
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25	MAMMA1000490	F-MAMMA1000490	1508	R-MAMMA1000490	7013
	MAMMA1000500	F-MAMMA1000500	1509	R-MAMMA1000500	7014
	MAMMA1000501	F-MAMMA1000501	1510	R-MAMMA1000501	7015
	MAMMA1000516	F-MAMMA1000516	1511	R-MAMMA1000516	7016
30	MAMMA1000522	F-MAMMA1000522	1512	R-MAMMA1000522	7017
	MAMMA1000524	F-MAMMA1000524	1513		
	MAMMA1000559	F-MAMMA1000559	1514	R-MAMMA1000559	7018
	MAMMA1000565	F-MAMMA1000565	1515	R-MAMMA1000565	7019
35	MAMMA1000567	F-MAMMA1000567	1516	R-MAMMA1000567	7020
	MAMMA1000576	F-MAMMA1000576	1517	R-MAMMA1000576	7021
	MAMMA1000583	F-MAMMA1000583	1518	R-MAMMA1000583	7022
	MAMMA1000585	F-MAMMA1000585	1519	R-MAMMA1000585	7023
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	MAMMA1000597	F-MAMMA1000597	1521	R-MAMMA1000597	7025
	MAMMA1000605	F-MAMMA1000605	1522	R-MAMMA1000605	7026
	MAMMA1000612	F-MAMMA1000612	1523	R-MAMMA1000612	7027
	MAMMA1000616	F-MAMMA1000616	1524	R-MAMMA1000616	7028
45	MAMMA1000621	F-MAMMA1000621	1525	R-MAMMA1000621	7029
	MAMMA1000623	F-MAMMA1000623	1526	R-MAMMA1000623	7030
	MAMMA1000625	F-MAMMA1000625	1527	R-MAMMA1000625	7031
	MAMMA1000643	F-MAMMA1000643	1528	R-MAMMA1000643	7032
50	MAMMA1000664	F-MAMMA1000664	1529	R-MAMMA1000664	7033
	MAMMA1000669	F-MAMMA1000669	1530	R-MAMMA1000669	7034
	MAMMA1000670	F-MAMMA1000670	1531	R-MAMMA1000670	7035
	MAMMA1000672	F-MAMMA1000672	1532	R-MAMMA1000672	7036
55	MAMMA1000684	F-MAMMA1000684	1533	R-MAMMA1000684	7037

	MAMMA1000696	F-MAMMA1000696	1534	R-MAMMA1000696	7038
	MAMMA1000707	F-MAMMA1000707	1535	R-MAMMA1000707	7039
5	MAMMA1000713	F-MAMMA1000713	1536	R-MAMMA1000713	7040
	MAMMA1000714	F-MAMMA1000714	1537	R-MAMMA1000714	7041
	MAMMA1000718	F-MAMMA1000718	1538	R-MAMMA1000718	7042
	MAMMA1000720	F-MAMMA1000720	1539	R-MAMMA1000720	7043
	MAMMA1000723	F-MAMMA1000723	1540	R-MAMMA1000723	7044
10	MAMMA1000731	F-MAMMA1000731	1541	R-MAMMA1000731	7045
	MAMMA1000732	F-MAMMA1000732	1542	R-MAMMA1000732	7046
	MAMMA1000733	F-MAMMA1000733	1543	R-MAMMA1000733	7047
	MAMMA1000734	F-MAMMA1000734	1544	R-MAMMA1000734	7048
15	MAMMA1000738	F-MAMMA1000738	1545	R-MAMMA1000738	7049
	MAMMA1000744	F-MAMMA1000744	1546	R-MAMMA1000744	7050
	MAMMA1000746	F-MAMMA1000746	1547	R-MAMMA1000746	7051
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20	MAMMA1000760	F-MAMMA1000760	1549	R-MAMMA1000760	7053
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	MAMMA1000775	F-MAMMA1000775	1551	R-MAMMA1000775	7055
	MAMMA1000776	F-MAMMA1000776	1552	R-MAMMA1000776	7056
	MAMMA1000778	F-MAMMA1000778	1553	R-MAMMA1000778	7057
25	MAMMA1000782	F-MAMMA1000782	1554	R-MAMMA1000782	7058
	MAMMA1000798	F-MAMMA1000798	1555	R-MAMMA1000798	7059
	MAMMA1000802	F-MAMMA1000802	1556	R-MAMMA1000802	7060
	MAMMA1000824	F-MAMMA1000824	1557		
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	MAMMA1000839	F-MAMMA1000839	1559	R-MAMMA1000839	7062
	MAMMA1000841	F-MAMMA1000841	1560	R-MAMMA1000841	7063
	MAMMA1000842	F-MAMMA1000842	1561	R-MAMMA1000842	7064
35	MAMMA1000843	F-MAMMA1000843	1562	R-MAMMA1000843	7065
	MAMMA1000845	F-MAMMA1000845	1563	R-MAMMA1000845	7066
	MAMMA1000851	F-MAMMA1000851	1564	R-MAMMA1000851	7067
	MAMMA1000855	F-MAMMA1000855	1565	R-MAMMA1000855	7068
40	MAMMA1000856	F-MAMMA1000856	1566	R-MAMMA1000856	7069
	MAMMA1000859	F-MAMMA1000859	1567		
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	MAMMA1000863	F-MAMMA1000863	1569	R-MAMMA1000863	7071
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45	MAMMA1000867	F-MAMMA1000867	1571	R-MAMMA1000867	7073
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	MAMMA1000876	F-MAMMA1000876	1573	R-MAMMA1000876	7075
	MAMMA1000877	F-MAMMA1000877	1574	R-MAMMA1000877	7076
50	MAMMA1000880	F-MAMMA1000880	1575	R-MAMMA1000880	7077
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	MAMMA1000905	F-MAMMA1000905	1578	R-MAMMA1000905	7080
55	MAMMA1000906	F-MAMMA1000906	1579	R-MAMMA1000906	7081

	MAMMA1000908	F-MAMMA1000908	1580	R-MAMMA1000908	7082
	MAMMA1000914	F-MAMMA1000914	1581	R-MAMMA1000914	7083
	MAMMA1000921	F-MAMMA1000921	1582	R-MAMMA1000921	7084
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	MAMMA1000941	F-MAMMA1000941	1585	R-MAMMA1000941	7087
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10	MAMMA1000943	F-MAMMA1000943	1587	R-MAMMA1000943	7089
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	MAMMA1000957	F-MAMMA1000957	1589	R-MAMMA1000957	7091
	MAMMA1000962	F-MAMMA1000962	1590	R-MAMMA1000962	7092
15	MAMMA1000968	F-MAMMA1000968	1591	R-MAMMA1000968	7093
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	MAMMA1000979	F-MAMMA1000979	1593	R-MAMMA1000979	7095
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20	MAMMA1000998	F-MAMMA1000998	1595	R-MAMMA1000998	7097
	MAMMA1001003	F-MAMMA1001003	1596	R-MAMMA1001003	7098
	MAMMA1001008	F-MAMMA1001008	1597	R-MAMMA1001008	7099
	MAMMA1001021	F-MAMMA1001021	1598	R-MAMMA1001021	7100
	MAMMA1001024	F-MAMMA1001024	1599	R-MAMMA1001024	7101
25	MAMMA1001030	F-MAMMA1001030	1600	R-MAMMA1001030	7102
	MAMMA1001035	F-MAMMA1001035	1601	R-MAMMA1001035	7103
	MAMMA1001038	F-MAMMA1001038	1602	R-MAMMA1001038	7104
	MAMMA1001041	F-MAMMA1001041	1603	R-nnnnnnnnnnnnn	7105
30	MAMMA1001050	F-MAMMA1001050	1604	R-MAMMA1001050	7106
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	MAMMA1001067	F-MAMMA1001067	1606	R-MAMMA1001067	7108
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35	MAMMA1001074	F-MAMMA1001074	1608	R-MAMMA1001074	7110
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	MAMMA1001078	F-MAMMA1001078	1610	R-MAMMA1001078	7112
	MAMMA1001080	F-MAMMA1001080	1611		
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	MAMMA1001091	F-MAMMA1001091	1613	R-MAMMA1001091	7114
	MAMMA1001092	F-MAMMA1001092	1614	R-MAMMA1001092	7115
	MAMMA1001105	F-MAMMA1001105	1615	R-MAMMA1001105	7116
45	MAMMA1001110	F-MAMMA1001110	1616	R-MAMMA1001110	7117
	MAMMA1001126	F-MAMMA1001126	1617	R-MAMMA1001126	7118
	MAMMA1001133	F-MAMMA1001133	1618	R-MAMMA1001133	7119
	MAMMA1001139	F-MAMMA1001139	1619	R-MAMMA1001139	7120
	MAMMA1001143	F-MAMMA1001143	1620	R-MAMMA1001143	7121
50	MAMMA1001145	F-MAMMA1001145	1621	R-MAMMA1001145	7122
	MAMMA1001154	F-MAMMA1001154	1622	R-MAMMA1001154	7123
	MAMMA1001161	F-MAMMA1001161	1623	R-MAMMA1001161	7124
	MAMMA1001162	F-MAMMA1001162	1624	R-MAMMA1001162	7125
55	MAMMA1001181	F-MAMMA1001181	1625	R-MAMMA1001181	7126

	MAMMA1001186	F-MAMMA1001186	1626	R-MAMMA1001186	7127
	MAMMA1001191	F-MAMMA1001191	1627	R-MAMMA1001191	7128
	MAMMA1001198	F-MAMMA1001198	1628	R-MAMMA1001198	7129
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	MAMMA1001203	F-MAMMA1001203	1630	R-MAMMA1001203	7131
	MAMMA1001206	F-MAMMA1001206	1631	R-MAMMA1001206	7132
	MAMMA1001215	F-MAMMA1001215	1632	R-MAMMA1001215	7133
10	MAMMA1001220	F-MAMMA1001220	1633	R-MAMMA1001220	7134
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	MAMMA1001243	F-MAMMA1001243	1635	R-MAMMA1001243	7136
	MAMMA1001244	F-MAMMA1001244	1636	R-MAMMA1001244	7137
15	MAMMA1001249	F-MAMMA1001249	1637	R-MAMMA1001249	7138
	MAMMA1001256	F-MAMMA1001256	1638	R-MAMMA1001256	7139
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	MAMMA1001260	F-MAMMA1001260	1640	R-MAMMA1001260	7141
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	MAMMA1001271	F-MAMMA1001271	1642	R-MAMMA1001271	7143
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	MAMMA1001280	F-MAMMA1001280	1644	R-MAMMA1001280	7145
	MAMMA1001292	F-MAMMA1001292	1645	R-MAMMA1001292	7146
25	MAMMA1001296	F-MAMMA1001296	1646	R-MAMMA1001296	7147
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	MAMMA1001305	F-MAMMA1001305	1648	R-MAMMA1001305	7149
	MAMMA1001322	F-MAMMA1001322	1649	R-MAMMA1001322	7150
30	MAMMA1001324	F-MAMMA1001324	1650	R-MAMMA1001324	7151
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	MAMMA1001341	F-MAMMA1001341	1652	R-MAMMA1001341	7153
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35	MAMMA1001346	F-MAMMA1001346	1654	R-MAMMA1001346	7155
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	MAMMA1001388	F-MAMMA1001388	1656	R-MAMMA1001388	7157
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40	MAMMA1001408	F-MAMMA1001408	1658	R-MAMMA1001408	7159
	MAMMA1001411	F-MAMMA1001411	1659	R-MAMMA1001411	7160
	MAMMA1001419	F-MAMMA1001419	1660	R-MAMMA1001419	7161
	MAMMA1001420	F-MAMMA1001420	1661	R-MAMMA1001420	7162
45	MAMMA1001435	F-MAMMA1001435	1662	R-MAMMA1001435	7163
	MAMMA1001442	F-MAMMA1001442	1663	R-MAMMA1001442	7164
	MAMMA1001446	F-MAMMA1001446	1664	R-MAMMA1001446	7165
	MAMMA1001452	F-MAMMA1001452	1665	R-MAMMA1001452	7166
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50	MAMMA1001476	F-MAMMA1001476	1667	R-MAMMA1001476	7168
	MAMMA1001487	F-MAMMA1001487	1668	R-MAMMA1001487	7169
	MAMMA1001501	F-MAMMA1001501	1669	R-MAMMA1001501	7170
	MAMMA1001502	F-MAMMA1001502	1670	R-MAMMA1001502	7171
55	MAMMA1001510	F-MAMMA1001510	1671	R-MAMMA1001510	7172



	MAMMA1001522	F-MAMMA1001522	1672	R-MAMMA1001522	7173
	MAMMA1001547	F-MAMMA1001547	1673	R-MAMMA1001547	7174
	MAMMA1001551	F-MAMMA1001551	1674	R-MAMMA1001551	7175
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	MAMMA1001576	F-MAMMA1001576	1676	R-MAMMA1001576	7177
	MAMMA1001590	F-MAMMA1001590	1677	R-MAMMA1001590	7178
	MAMMA1001600	F-MAMMA1001600	1678	R-MAMMA1001600	7179
10	MAMMA1001604	F-MAMMA1001604	1679	R-MAMMA1001604	7180
	MAMMA1001606	F-MAMMA1001606	1680	R-MAMMA1001606	7181
	MAMMA1001620	F-MAMMA1001620	1681	R-MAMMA1001620	7182
	MAMMA1001627	F-MAMMA1001627	1682	R-MAMMA1001627	7183
15	MAMMA1001630	F-MAMMA1001630	1683	R-MAMMA1001630	7184
	MAMMA1001633	F-MAMMA1001633	1684	R-MAMMA1001633	7185
	MAMMA1001635	F-MAMMA1001635	1685	R-MAMMA1001635	7186
	MAMMA1001649	F-MAMMA1001649	1686	R-MAMMA1001649	7187
	MAMMA1001654	F-MAMMA1001654	1687		
20	MAMMA1001663	F-MAMMA1001663	1688	R-MAMMA1001663	7188
	MAMMA1001670	F-MAMMA1001670	1689	R-MAMMA1001670	7189
	MAMMA1001671	F-MAMMA1001671	1690	R-MAMMA1001671	7190
	MAMMA1001679	F-MAMMA1001679	1691	R-MAMMA1001679	7191
25	MAMMA1001683	F-MAMMA1001683	1692	R-MAMMA1001683	7192
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	MAMMA1001692	F-MAMMA1001692	1694	R-MAMMA1001692	7194
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30	MAMMA1001715	F-MAMMA1001715	1696	R-MAMMA1001715	7196
	MAMMA1001730	F-MAMMA1001730	1697	R-MAMMA1001730	7197
	MAMMA1001735	F-MAMMA1001735	1698	R-MAMMA1001735	7198
	MAMMA1001740	F-MAMMA1001740	1699	R-MAMMA1001740	7199
35	MAMMA1001743	F-MAMMA1001743	1700	R-MAMMA1001743	7200
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	MAMMA1001745	F-MAMMA1001745	1702	R-MAMMA1001745	7202
	MAMMA1001751	F-MAMMA1001751	1703	R-MAMMA1001751	7203
40	MAMMA1001754	F-MAMMA1001754	1704	R-MAMMA1001754	7204
	MAMMA1001757	F-MAMMA1001757	1705	R-MAMMA1001757	7205
	MAMMA1001760	F-MAMMA1001760	1706	R-MAMMA1001760	7206
	MAMMA1001764	F-MAMMA1001764	1707	R-MAMMA1001764	7207
	MAMMA1001768	F-MAMMA1001768	1708	R-MAMMA1001768	7208
45	MAMMA1001769	F-MAMMA1001769	1709	R-MAMMA1001769	7209
	MAMMA1001771	F-MAMMA1001771	1710	R-MAMMA1001771	7210
	MAMMA1001783	F-MAMMA1001783	1711	R-MAMMA1001783	7211
	MAMMA1001785	F-MAMMA1001785	1712	R-MAMMA1001785	7212
50	MAMMA1001788	F-MAMMA1001788	1713	R-MAMMA1001788	7213
	MAMMA1001790	F-MAMMA1001790	1714	R-MAMMA1001790	7214
	MAMMA1001806	F-MAMMA1001806	1715	R-MAMMA1001806	7215
	MAMMA1001812	F-MAMMA1001812	1716	R-MAMMA1001812	7216
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	MAMMA1001818	F-MAMMA1001818	1719	R-MAMMA1001818	7219
	MAMMA1001820	F-MAMMA1001820	1720	R-MAMMA1001820	7220
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	MAMMA1001878	F-MAMMA1001878	1731	R-MAMMA1001878	7231
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	MAMMA1001969	F-MAMMA1001969	1739	R-MAMMA1001969	7239
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	MAMMA1002032	F-MAMMA1002032	1744	R-MAMMA1002032	7244
	MAMMA1002033	F-MAMMA1002033	1745	R-MAMMA1002033	7245
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	MAMMA1002078	F-MAMMA1002078	1752	R-MAMMA1002078	7252
	MAMMA1002082	F-MAMMA1002082	1753	R-MAMMA1002082	7253
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	MAMMA1002093	F-MAMMA1002093	1755	R-MAMMA1002093	7255
	MAMMA1002108	F-MAMMA1002108	1756	R-MAMMA1002108	7256
	MAMMA1002118	F-MAMMA1002118	1757	R-MAMMA1002118	7257
	MAMMA1002125	F-MAMMA1002125	1758	R-MAMMA1002125	7258
50	MAMMA1002132	F-MAMMA1002132	1759	R-MAMMA1002132	7259
	MAMMA1002140	F-MAMMA1002140	1760	R-MAMMA1002140	7260
	MAMMA1002143	F-MAMMA1002143	1761	R-MAMMA1002143	7261
	MAMMA1002145	F-MAMMA1002145	1762	R-MAMMA1002145	7262
55	MAMMA1002153	F-MAMMA1002153	1763	R-MAMMA1002153	7263

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	MAMMA1002156	F-MAMMA1002156	1765	R-MAMMA1002156	7265
	MAMMA1002158	F-MAMMA1002158	1766	R-MAMMA1002158	7266
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	MAMMA1002174	F-MAMMA1002174	1768	R-MAMMA1002174	7268
	MAMMA1002198	F-MAMMA1002198	1769	R-MAMMA1002198	7269
	MAMMA1002209	F-MAMMA1002209	1770	R-MAMMA1002209	7270
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	MAMMA1002230	F-MAMMA1002230	1773	R-MAMMA1002230	7273
	MAMMA1002236	F-MAMMA1002236	1774	R-MAMMA1002236	7274
15	MAMMA1002243	F-MAMMA1002243	1775	R-MAMMA1002243	7275
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	MAMMA1002282	F-MAMMA1002282	1780	R-MAMMA1002282	7280
	MAMMA1002292	F-MAMMA1002292	1781	R-MAMMA1002292	7281
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25	MAMMA1002294	F-MAMMA1002294	1783	R-MAMMA1002294	7283
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	MAMMA1002298	F-MAMMA1002298	1785	R-MAMMA1002298	7285
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30	MAMMA1002308	F-MAMMA1002308	1787	R-MAMMA1002308	7287
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	MAMMA1002311	F-MAMMA1002311	1789	R-MAMMA1002311	7289
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	MAMMA1002347	F-MAMMA1002347	1798	R-MAMMA1002347	7298
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	MAMMA1002353	F-MAMMA1002353	1801	R-MAMMA1002353	7301
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	MAMMA1002356	F-MAMMA1002356	1803	R-MAMMA1002356	7303
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	MAMMA1002380	F-MAMMA1002380	1808	R-MAMMA1002380	7308
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	MAMMA1002427	F-MAMMA1002427	1815	R-MAMMA1002427	7315
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	MAMMA1002530	F-MAMMA1002530	1828	R-MAMMA1002530	7328
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	MAMMA1002566	F-MAMMA1002566	1832	R-MAMMA1002566	7332
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	MAMMA1002754	F-MAMMA1002754	1870	R-MAMMA1002754	7370
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	MAMMA1002765	F-MAMMA1002765	1873	R-MAMMA1002765	7373
	MAMMA1002769	F-MAMMA1002769	1874	R-MAMMA1002769	7374
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	MAMMA1002782	F-MAMMA1002782	1877	R-MAMMA1002782	7376
	MAMMA1002796	F-MAMMA1002796	1878	R-MAMMA1002796	7377
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	MAMMA1002833	F-MAMMA1002833	1882	R-MAMMA1002833	7381
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35	MAMMA1002838	F-MAMMA1002838	1884	R-MAMMA1002838	7383
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	MAMMA1002843	F-MAMMA1002843	1886	R-MAMMA1002843	7385
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55	MAMMA1002930	F-MAMMA1002930	1901	R-MAMMA1002930	7399

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10	MAMMA1002973	F-MAMMA1002973	1909	R-MAMMA1002973	7406
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	MAMMA1002987	F-MAMMA1002987	1911	R-MAMMA1002987	7408
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	MAMMA1003011	F-MAMMA1003011	1915	R-MAMMA1003011	7412
	MAMMA1003013	F-MAMMA1003013	1916		
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	MAMMA1003019	F-MAMMA1003019	1918	R-MAMMA1003019	7414
	MAMMA1003026	F-MAMMA1003026	1919	R-MAMMA1003026	7415
	MAMMA1003031	F-MAMMA1003031	1920	R-MAMMA1003031	7416
25	MAMMA1003035	F-MAMMA1003035	1921	R-MAMMA1003035	7417
	MAMMA1003039	F-MAMMA1003039	1922	R-MAMMA1003039	7418
	MAMMA1003040	F-MAMMA1003040	1923	R-MAMMA1003040	7419
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	MAMMA1003055	F-MAMMA1003055	1927	R-MAMMA1003055	7423
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35	MAMMA1003057	F-MAMMA1003057	1929	R-MAMMA1003057	7425
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	MAMMA1003089	F-MAMMA1003089	1931	R-MAMMA1003089	7427
	MAMMA1003099	F-MAMMA1003099	1932	R-MAMMA1003099	7428
	MAMMA1003104	F-MAMMA1003104	1933	R-MAMMA1003104	7429
40	MAMMA1003113	F-MAMMA1003113	1934	R-MAMMA1003113	7430
	MAMMA1003127	F-MAMMA1003127	1935	R-MAMMA1003127	7431
	MAMMA1003135	F-MAMMA1003135	1936	R-MAMMA1003135	7432
	MAMMA1003140	F-MAMMA1003140	1937	R-MAMMA1003140	7433
45	MAMMA1003146	F-MAMMA1003146	1938	R-MAMMA1003146	7434
	MAMMA1003150	F-MAMMA1003150	1939	R-nnnnnnnnnnnnn	7435
	MAMMA1003166	F-MAMMA1003166	1940	R-MAMMA1003166	7436
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	NT2RM1000032	F-NT2RM1000032	1943		
	NT2RM1000035	F-NT2RM1000035	1944		
	NT2RM1000037	F-NT2RM1000037	1945		
55	NT2RM1000039	F-NT2RM1000039	1946		
	NT2RM1000055	F-NT2RM1000055	1947		

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	NT2RM1000059	F-NT2RM1000059	1948
	NT2RM1000062	F-NT2RM1000062	1949
	NT2RM1000080	F-NT2RM1000080	1950
5	NT2RM1000086	F-NT2RM1000086	1951
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	NT2RM1000260	F-NT2RM1000260	1967
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	NT2RM1000365	F-NT2RM1000365	1977
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	NT2RM1000399	F-NT2RM1000399	1981
	NT2RM1000421	F-NT2RM1000421	1982
	NT2RM1000430	F-NT2RM1000430	1983
	NT2RM1000499	F-NT2RM1000499	1984
45	NT2RM1000539	F-NT2RM1000539	1985
	NT2RM1000553	F-NT2RM1000553	1986
	NT2RM1000555	F-NT2RM1000555	1987
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50	NT2RM1000623	F-NT2RM1000623	1989
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55	NT2RM1000669	F-NT2RM1000669	1993

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	NT2RM1000672	F-NT2RM1000672	1994
	NT2RM1000691	F-NT2RM1000691	1995
	NT2RM1000699	F-NT2RM1000699	1996
5	NT2RM1000702	F-NT2RM1000702	1997
	NT2RM1000725	F-NT2RM1000725	1998
	NT2RM1000741	F-NT2RM1000741	1999
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10	NT2RM1000746	F-NT2RM1000746	2001
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15	NT2RM1000781	F-NT2RM1000781	2005
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	NT2RM1000802	F-NT2RM1000802	2007
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25	NT2RM1000852	F-NT2RM1000852	2013
	NT2RM1000857	F-NT2RM1000857	2014
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35	NT2RM1000905	F-NT2RM1000905	2022
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	NT2RM1000962	F-NT2RM1000962	2025
	NT2RM1000978	F-NT2RM1000978	2026
40	NT2RM1001003	F-NT2RM1001003	2027
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45	NT2RM1001044	F-NT2RM1001044	2030
	NT2RM1001059	F-NT2RM1001059	2031
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50	NT2RM1001082	F-NT2RM1001082	2035
	NT2RM1001085	F-NT2RM1001085	2036
	NT2RM1001092	F-NT2RM1001092	2037
	NT2RM1001102	F-NT2RM1001102	2038
55	NT2RM1001105	F-NT2RM1001105	2039



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	NT2RM1001112	F-NT2RM1001112	2040
	NT2RM1001115	F-NT2RM1001115	2041
	NT2RM1001139	F-NT2RM1001139	2042
5	NT2RM2000006	F-NT2RM2000006	2043
	NT2RM2000013	F-NT2RM2000013	2044
	NT2RM2000030	F-NT2RM2000030	2045
	NT2RM2000032	F-NT2RM2000032	2046
10	NT2RM2000042	F-NT2RM2000042	2047
	NT2RM2000092	F-NT2RM2000092	2048
	NT2RM2000093	F-NT2RM2000093	2049
	NT2RM2000101	F-NT2RM2000101	2050
15	NT2RM2000124	F-NT2RM2000124	2051
	NT2RM2000191	F-NT2RM2000191	2052
	NT2RM2000192	F-NT2RM2000192	2053
	NT2RM2000239	F-NT2RM2000239	2054
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	NT2RM2000287	F-NT2RM2000287	2059
25	NT2RM2000322	F-NT2RM2000322	2060
	NT2RM2000359	F-NT2RM2000359	2061
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30	NT2RM2000371	F-NT2RM2000371	2064
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35	NT2RM2000407	F-NT2RM2000407	2068
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45	NT2RM2000540	F-NT2RM2000540	2077
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	NT2RM2000581	F-NT2RM2000581	2083
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	NT2RM2000609	F-NT2RM2000609	2087
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	NT2RM2000691	F-NT2RM2000691	2096
15	NT2RM2000714	F-NT2RM2000714	2097
	NT2RM2000718	F-NT2RM2000718	2098
	NT2RM2000735	F-NT2RM2000735	2099
	NT2RM2000740	F-NT2RM2000740	2100
20	NT2RM2000795	F-NT2RM2000795	2101
	NT2RM2000821	F-NT2RM2000821	2102
	NT2RM2000837	F-NT2RM2000837	2103
	NT2RM2000951	F-NT2RM2000951	2104
25	NT2RM2000952	F-NT2RM2000952	2105
	NT2RM2000984	F-NT2RM2000984	2106
	NT2RM2001004	F-NT2RM2001004	2107
	NT2RM2001035	F-NT2RM2001035	2108
	NT2RM2001065	F-NT2RM2001065	2109
30	NT2RM2001100	F-NT2RM2001100	2110
	NT2RM2001105	F-NT2RM2001105	2111
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35	NT2RM2001152	F-NT2RM2001152	2114
	NT2RM2001177	F-NT2RM2001177	2115
	NT2RM2001194	F-NT2RM2001194	2116
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40	NT2RM2001201	F-NT2RM2001201	2118
	NT2RM2001221	F-NT2RM2001221	2119
	NT2RM2001238	F-NT2RM2001238	2120
	NT2RM2001243	F-NT2RM2001243	2121
	NT2RM2001247	F-NT2RM2001247	2122
45	NT2RM2001256	F-NT2RM2001256	2123
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	NT2RM2001312	F-NT2RM2001312	2126
50	NT2RM2001319	F-NT2RM2001319	2127
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	NT2RM2001360	F-NT2RM2001360	2130
55	NT2RM2001370	F-NT2RM2001370	2131

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10	NT2RM2001547	F-NT2RM2001547	2139
	NT2RM2001575	F-NT2RM2001575	2140
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	NT2RM2001588	F-NT2RM2001588	2142
15	NT2RM2001592	F-NT2RM2001592	2143
	NT2RM2001605	F-NT2RM2001605	2144
	NT2RM2001613	F-NT2RM2001613	2145
	NT2RM2001632	F-NT2RM2001632	2146
20	NT2RM2001635	F-NT2RM2001635	2147
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	NT2RM2001652	F-NT2RM2001652	2151
25	NT2RM2001659	F-NT2RM2001659	2152
	NT2RM2001664	F-NT2RM2001664	2153
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30	NT2RM2001671	F-NT2RM2001671	2156
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	NT2RM2001681	F-NT2RM2001681	2158
	NT2RM2001688	F-NT2RM2001688	2159
35	NT2RM2001695	F-NT2RM2001695	2160
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45	NT2RM2001727	F-NT2RM2001727	2169
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	NT2RM2001743	F-NT2RM2001743	2171
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55	NT2RM2001784	F-NT2RM2001784	2177

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15	NT2RM2001879	F-NT2RM2001879	2189	
	NT2RM2001886	F-NT2RM2001886	2190	
	NT2RM2001896	F-NT2RM2001896	2191	
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20	NT2RM2001930	F-NT2RM2001930	2193	
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30	NT2RM2002004	F-NT2RM2002004	2202	
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	NT2RM2002049	F-NT2RM2002049	2205	
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	NT2RM2002091	F-NT2RM2002091	2208	
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	NT2RM2002142	F-NT2RM2002142	2212	
	NT2RM2002145	F-NT2RM2002145	2213	
	NT2RM2002178	F-NT2RM2002178	2214	
45	NT2RM2002580	F-NT2RM2002580	2215	R-NT2RM2002580 7437
	NT2RM4000024	F-NT2RM4000024	2216	R-NT2RM4000024 7438
	NT2RM4000027	F-NT2RM4000027	2217	R-NT2RM4000027 7439
	NT2RM4000030	F-NT2RM4000030	2218	R-NT2RM4000030 7440
50	NT2RM4000046	F-NT2RM4000046	2219	R-NT2RM4000046 7441
	NT2RM4000061	F-NT2RM4000061	2220	R-NT2RM4000061 7442
	NT2RM4000085	F-NT2RM4000085	2221	R-NT2RM4000085 7443
	NT2RM4000086	F-NT2RM4000086	2222	R-NT2RM4000086 7444
55	NT2RM4000104	F-NT2RM4000104	2223	R-NT2RM4000104 7445

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	NT2RM4000156	F-NT2RM4000156	2226	R-NT2RM4000156	7448
5	NT2RM4000167	F-NT2RM4000167	2227	R-nnnnnnnnnnnnn	7449
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	NT2RM4000191	F-NT2RM4000191	2229	R-NT2RM4000191	7451
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10	NT2RM4000199	F-NT2RM4000199	2231	R-NT2RM4000199	7453
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	NT2RM4000202	F-NT2RM4000202	2233	R-NT2RM4000202	7455
	NT2RM4000210	F-NT2RM4000210	2234	R-NT2RM4000210	7456
	NT2RM4000215	F-NT2RM4000215	2235	R-NT2RM4000215	7457
15	NT2RM4000229	F-NT2RM4000229	2236	R-nnnnnnnnnnnnn	7458
	NT2RM4000233	F-NT2RM4000233	2237	R-NT2RM4000233	7459
	NT2RM4000244	F-NT2RM4000244	2238	R-NT2RM4000244	7460
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	NT2RM4000290	F-NT2RM4000290	2241	R-NT2RM4000290	7463
	NT2RM4000324	F-NT2RM4000324	2242	R-NT2RM4000324	7464
	NT2RM4000327	F-NT2RM4000327	2243	R-NT2RM4000327	7465
25	NT2RM4000344	F-NT2RM4000344	2244	R-NT2RM4000344	7466
	NT2RM4000349	F-NT2RM4000349	2245	R-NT2RM4000349	7467
	NT2RM4000354	F-NT2RM4000354	2246	R-NT2RM4000354	7468
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30	NT2RM4000366	F-NT2RM4000366	2248	R-NT2RM4000366	7470
	NT2RM4000368	F-NT2RM4000368	2249	R-NT2RM4000368	7471
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	NT2RM4000395	F-NT2RM4000395	2251	R-NT2RM4000395	7473
35	NT2RM4000414	F-NT2RM4000414	2252	R-NT2RM4000414	7474
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	NT2RM4000425	F-NT2RM4000425	2254	R-NT2RM4000425	7476
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40	NT2RM4000471	F-NT2RM4000471	2257	R-NT2RM4000471	7479
	NT2RM4000486	F-NT2RM4000486	2258	R-NT2RM4000486	7480
	NT2RM4000496	F-NT2RM4000496	2259	R-NT2RM4000496	7481
	NT2RM4000511	F-NT2RM4000511	2260	R-NT2RM4000511	7482
45	NT2RM4000514	F-NT2RM4000514	2261	R-NT2RM4000514	7483
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	NT2RM4000520	F-NT2RM4000520	2263	R-NT2RM4000520	7485
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55	NT2RM4000595	F-NT2RM4000595	2269	R-NT2RM4000595	7491

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	NT2RM4000616	F-NT2RM4000616	2272	R-NT2RM4000616	7494
5	NT2RM4000674	F-NT2RM4000674	2273	R-NT2RM4000674	7495
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	NT2RM4001092	F-NT2RM4001092	2309	R-NT2RM4001092	7531
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	NT2RM4001151	F-NT2RM4001151	2312	R-NT2RM4001151	7534
	NT2RM4001155	F-NT2RM4001155	2313	R-NT2RM4001155	7535
	NT2RM4001160	F-NT2RM4001160	2314	R-NT2RM4001160	7536
55	NT2RM4001187	F-NT2RM4001187	2315	R-NT2RM4001187	7537

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	NT2RP2000258	F-NT2RP2000258	2612	R-NT2RP2000258	7708
	NT2RP2000270	F-NT2RP2000270	2613	R-NT2RP2000270	7709
	NT2RP2000274	F-NT2RP2000274	2614	R-NT2RP2000274	7710
	NT2RP2000283	F-NT2RP2000283	2615		
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	NT2RP2000289	F-NT2RP2000289	2617	R-NT2RP2000289	7712
	NT2RP2000297	F-NT2RP2000297	2618	R-NT2RP2000297	7713
	NT2RP2000298	F-NT2RP2000298	2619	R-NT2RP2000298	7714
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	NT2RP2000327	F-NT2RP2000327	2621	R-NT2RP2000327	7716
	NT2RP2000328	F-NT2RP2000328	2622		
	NT2RP2000329	F-NT2RP2000329	2623	R-NT2RP2000329	7717
40	NT2RP2000337	F-NT2RP2000337	2624	R-NT2RP2000337	7718
	NT2RP2000346	F-NT2RP2000346	2625	R-NT2RP2000346	7719
	NT2RP2000369	F-NT2RP2000369	2626	R-NT2RP2000369	7720
	NT2RP2000412	F-NT2RP2000412	2627		
45	NT2RP2000414	F-NT2RP2000414	2628	R-NT2RP2000414	7721
	NT2RP2000420	F-NT2RP2000420	2629	R-NT2RP2000420	7722
	NT2RP2000422	F-NT2RP2000422	2630	R-NT2RP2000422	7723
	NT2RP2000438	F-NT2RP2000438	2631	R-NT2RP2000438	7724
	NT2RP2000448	F-NT2RP2000448	2632	R-NT2RP2000448	7725
50	NT2RP2000459	F-NT2RP2000459	2633	R-NT2RP2000459	7726
	NT2RP2000498	F-NT2RP2000498	2634	R-NT2RP2000498	7727
	NT2RP2000503	F-NT2RP2000503	2635	R-NT2RP2000503	7728
	NT2RP2000510	F-NT2RP2000510	2636	R-NT2RP2000510	7729
55	NT2RP2000516	F-NT2RP2000516	2637	R-rrrrrrrrrrrrrrrrrrrr	7730

	NT2RP2000523	F-NT2RP2000523	2638	R-NT2RP2000523	7731
	NT2RP2000603	F-NT2RP2000603	2639	R-NT2RP2000603	7732
	NT2RP2000617	F-NT2RP2000617	2640	R-NT2RP2000617	7733
5	NT2RP2000634	F-NT2RP2000634	2641	R-NT2RP2000634	7734
	NT2RP2000644	F-NT2RP2000644	2642	R-NT2RP2000644	7735
	NT2RP2000656	F-NT2RP2000656	2643	R-NT2RP2000656	7736
	NT2RP2000658	F-NT2RP2000658	2644	R-NT2RP2000658	7737
10	NT2RP2000668	F-NT2RP2000668	2645	R-NT2RP2000668	7738
	NT2RP2000678	F-NT2RP2000678	2646	R-NT2RP2000678	7739
	NT2RP2000704	F-NT2RP2000704	2647		
	NT2RP2000710	F-NT2RP2000710	2648	R-NT2RP2000710	7740
15	NT2RP2000715	F-NT2RP2000715	2649	R-NT2RP2000715	7741
	NT2RP2000731	F-NT2RP2000731	2650	R-NT2RP2000731	7742
	NT2RP2000758	F-NT2RP2000758	2651	R-NT2RP2000758	7743
	NT2RP2000764	F-NT2RP2000764	2652	R-NT2RP2000764	7744
20	NT2RP2000809	F-NT2RP2000809	2653	R-NT2RP2000809	7745
	NT2RP2000812	F-NT2RP2000812	2654	R-NT2RP2000812	7746
	NT2RP2000814	F-NT2RP2000814	2655	R-ntntntntntntntntntntnt	7747
	NT2RP2000816	F-NT2RP2000816	2656	R-NT2RP2000816	7748
25	NT2RP2000819	F-NT2RP2000819	2657	R-NT2RP2000819	7749
	NT2RP2000841	F-NT2RP2000841	2658	R-NT2RP2000841	7750
	NT2RP2000842	F-NT2RP2000842	2659	R-NT2RP2000842	7751
	NT2RP2000845	F-NT2RP2000845	2660	R-NT2RP2000845	7752
30	NT2RP2000863	F-NT2RP2000863	2661	R-NT2RP2000863	7753
	NT2RP2000880	F-NT2RP2000880	2662	R-NT2RP2000880	7754
	NT2RP2000892	F-NT2RP2000892	2663	R-NT2RP2000892	7755
	NT2RP2000931	F-NT2RP2000931	2664	R-NT2RP2000931	7756
	NT2RP2000932	F-NT2RP2000932	2665		
35	NT2RP2000938	F-NT2RP2000938	2666	R-NT2RP2000938	7757
	NT2RP2000943	F-NT2RP2000943	2667	R-NT2RP2000943	7758
	NT2RP2000965	F-NT2RP2000965	2668	R-NT2RP2000965	7759
	NT2RP2000970	F-NT2RP2000970	2669	R-NT2RP2000970	7760
40	NT2RP2000985	F-NT2RP2000985	2670	R-NT2RP2000985	7761
	NT2RP2000987	F-NT2RP2000987	2671	R-NT2RP2000987	7762
	NT2RP2001036	F-NT2RP2001036	2672	R-NT2RP2001036	7763
	NT2RP2001044	F-NT2RP2001044	2673	R-NT2RP2001044	7764
45	NT2RP2001056	F-NT2RP2001056	2674		
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	NT2RP2001070	F-NT2RP2001070	2676	R-NT2RP2001070	7766
	NT2RP2001081	F-NT2RP2001081	2677		
	NT2RP2001094	F-NT2RP2001094	2678	R-NT2RP2001094	7767
50	NT2RP2001119	F-NT2RP2001119	2679	R-NT2RP2001119	7768
	NT2RP2001127	F-NT2RP2001127	2680	R-NT2RP2001127	7769
	NT2RP2001137	F-NT2RP2001137	2681	R-NT2RP2001137	7770
	NT2RP2001149	F-NT2RP2001149	2682	R-NT2RP2001149	7771
55	NT2RP2001168	F-NT2RP2001168	2683	R-NT2RP2001168	7772

	NT2RP2001173	F-NT2RP2001173	2684	R-NT2RP2001173	7773
	NT2RP2001174	F-NT2RP2001174	2685	R-NT2RP2001174	7774
	NT2RP2001196	F-NT2RP2001196	2686	R-NT2RP2001196	7775
5	NT2RP2001218	F-NT2RP2001218	2687	R-NT2RP2001218	7776
	NT2RP2001226	F-NT2RP2001226	2688	R-NT2RP2001226	7777
	NT2RP2001233	F-NT2RP2001233	2689	R-NT2RP2001233	7778
	NT2RP2001245	F-NT2RP2001245	2690	R-NT2RP2001245	7779
10	NT2RP2001268	F-NT2RP2001268	2691	R-NT2RP2001268	7780
	NT2RP2001277	F-NT2RP2001277	2692	R-NT2RP2001277	7781
	NT2RP2001290	F-NT2RP2001290	2693	R-NT2RP2001290	7782
	NT2RP2001295	F-NT2RP2001295	2694	R-NT2RP2001295	7783
15	NT2RP2001312	F-NT2RP2001312	2695	R-NT2RP2001312	7784
	NT2RP2001327	F-NT2RP2001327	2696	R-NT2RP2001327	7785
	NT2RP2001328	F-NT2RP2001328	2697	R-NT2RP2001328	7786
	NT2RP2001347	F-NT2RP2001347	2698	R-NT2RP2001347	7787
	NT2RP2001366	F-NT2RP2001366	2699		
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	NT2RP2001381	F-NT2RP2001381	2701	R-NT2RP2001381	7789
	NT2RP2001392	F-NT2RP2001392	2702	R-NT2RP2001392	7790
	NT2RP2001394	F-NT2RP2001394	2703	R-NT2RP2001394	7791
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	NT2RP2001420	F-NT2RP2001420	2705	R-NT2RP2001420	7793
	NT2RP2001423	F-NT2RP2001423	2706	R-NT2RP2001423	7794
	NT2RP2001427	F-NT2RP2001427	2707	R-NT2RP2001427	7795
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	NT2RP2001440	F-NT2RP2001440	2709	R-NT2RP2001440	7797
	NT2RP2001445	F-NT2RP2001445	2710	R-NT2RP2001445	7798
	NT2RP2001449	F-NT2RP2001449	2711	R-NT2RP2001449	7799
35	NT2RP2001450	F-NT2RP2001450	2712	R-NT2RP2001450	7800
	NT2RP2001467	F-NT2RP2001467	2713	R-NT2RP2001467	7801
	NT2RP2001506	F-NT2RP2001506	2714	R-NT2RP2001506	7802
	NT2RP2001511	F-NT2RP2001511	2715	R-NT2RP2001511	7803
40	NT2RP2001520	F-NT2RP2001520	2716	R-NT2RP2001520	7804
	NT2RP2001526	F-NT2RP2001526	2717	R-NT2RP2001526	7805
	NT2RP2001536	F-NT2RP2001536	2718	R-NT2RP2001536	7806
	NT2RP2001560	F-NT2RP2001560	2719	R-NT2RP2001560	7807
	NT2RP2001569	F-NT2RP2001569	2720	R-NT2RP2001569	7808
45	NT2RP2001576	F-NT2RP2001576	2721	R-NT2RP2001576	7809
	NT2RP2001581	F-NT2RP2001581	2722	R-NT2RP2001581	7810
	NT2RP2001597	F-NT2RP2001597	2723	R-NT2RP2001597	7811
	NT2RP2001601	F-NT2RP2001601	2724	R-NT2RP2001601	7812
50	NT2RP2001613	F-NT2RP2001613	2725	R-NT2RP2001613	7813
	NT2RP2001628	F-NT2RP2001628	2726	R-NT2RP2001628	7814
	NT2RP2001634	F-NT2RP2001634	2727		
	NT2RP2001660	F-NT2RP2001660	2728		
55	NT2RP2001663	F-NT2RP2001663	2729	R-NT2RP2001663	7815

	NT2RP2001675	F-NT2RP2001675	2730		
	NT2RP2001677	F-NT2RP2001677	2731	R-NT2RP2001677	7816
	NT2RP2001678	F-NT2RP2001678	2732	R-NT2RP2001678	7817
5	NT2RP2001699	F-NT2RP2001699	2733	R-NT2RP2001699	7818
	NT2RP2001720	F-NT2RP2001720	2734	R-NT2RP2001720	7819
	NT2RP2001721	F-NT2RP2001721	2735	R-NT2RP2001721	7820
10	NT2RP2001740	F-NT2RP2001740	2736	R-NT2RP2001740	7821
	NT2RP2001748	F-NT2RP2001748	2737	R-NT2RP2001748	7822
	NT2RP2001762	F-NT2RP2001762	2738	R-NT2RP2001762	7823
	NT2RP2001813	F-NT2RP2001813	2739	R-NT2RP2001813	7824
	NT2RP2001839	F-NT2RP2001839	2740		
15	NT2RP2001861	F-NT2RP2001861	2741	R-NT2RP2001861	7825
	NT2RP2001869	F-NT2RP2001869	2742	R-NT2RP2001869	7826
	NT2RP2001876	F-NT2RP2001876	2743	R-NT2RP2001876	7827
	NT2RP2001883	F-NT2RP2001883	2744	R-NT2RP2001883	7828
20	NT2RP2001898	F-NT2RP2001898	2745		
	NT2RP2001900	F-NT2RP2001900	2746	R-NT2RP2001900	7829
	NT2RP2001907	F-NT2RP2001907	2747	R-NT2RP2001907	7830
	NT2RP2001926	F-NT2RP2001926	2748	R-NT2RP2001926	7831
	NT2RP2001936	F-NT2RP2001936	2749	R-NT2RP2001936	7832
25	NT2RP2001943	F-NT2RP2001943	2750	R-NT2RP2001943	7833
	NT2RP2001946	F-NT2RP2001946	2751	R-NT2RP2001946	7834
	NT2RP2001947	F-NT2RP2001947	2752	R-NT2RP2001947	7835
	NT2RP2001969	F-NT2RP2001969	2753	R-NT2RP2001969	7836
30	NT2RP2001976	F-NT2RP2001976	2754	R-NT2RP2001976	7837
	NT2RP2001985	F-NT2RP2001985	2755	R-NT2RP2001985	7838
	NT2RP2001991	F-NT2RP2001991	2756		
	NT2RP2002025	F-NT2RP2002025	2757	R-NT2RP2002025	7839
35	NT2RP2002032	F-NT2RP2002032	2758	R-NT2RP2002032	7840
	NT2RP2002033	F-NT2RP2002033	2759	R-NT2RP2002033	7841
	NT2RP2002041	F-NT2RP2002041	2760	R-NT2RP2002041	7842
	NT2RP2002046	F-NT2RP2002046	2761	R-NT2RP2002046	7843
40	NT2RP2002047	F-NT2RP2002047	2762	R-NT2RP2002047	7844
	NT2RP2002058	F-NT2RP2002058	2763	R-NT2RP2002058	7845
	NT2RP2002066	F-NT2RP2002066	2764	R-NT2RP2002066	7846
	NT2RP2002070	F-NT2RP2002070	2765	R-NT2RP2002070	7847
	NT2RP2002076	F-NT2RP2002076	2766	R-NT2RP2002076	7848
45	NT2RP2002078	F-NT2RP2002078	2767		
	NT2RP2002079	F-NT2RP2002079	2768	R-NT2RP2002079	7849
	NT2RP2002099	F-NT2RP2002099	2769	R-NT2RP2002099	7850
	NT2RP2002105	F-NT2RP2002105	2770	R-NT2RP2002105	7851
50	NT2RP2002124	F-NT2RP2002124	2771	R-NT2RP2002124	7852
	NT2RP2002137	F-NT2RP2002137	2772	R-NT2RP2002137	7853
	NT2RP2002154	F-NT2RP2002154	2773	R-NT2RP2002154	7854
	NT2RP2002172	F-NT2RP2002172	2774	R-NT2RP2002172	7855
55	NT2RP2002185	F-NT2RP2002185	2775	R-NT2RP2002185	7856



	NT2RP2002192	F-NT2RP2002192	2776	R-NT2RP2002192	7857
	NT2RP2002193	F-NT2RP2002193	2777	R-NT2RP2002193	7858
	NT2RP2002208	F-NT2RP2002208	2778	R-NT2RP2002208	7859
5	NT2RP2002219	F-NT2RP2002219	2779	R-NT2RP2002219	7860
	NT2RP2002231	F-NT2RP2002231	2780	R-NT2RP2002231	7861
	NT2RP2002235	F-NT2RP2002235	2781		
	NT2RP2002252	F-NT2RP2002252	2782	R-ntntntntntntntntntntnt	7862
10	NT2RP2002256	F-NT2RP2002256	2783	R-NT2RP2002256	7863
	NT2RP2002259	F-NT2RP2002259	2784	R-NT2RP2002259	7864
	NT2RP2002270	F-NT2RP2002270	2785	R-NT2RP2002270	7865
	NT2RP2002292	F-NT2RP2002292	2786	R-NT2RP2002292	7866
15	NT2RP2002312	F-NT2RP2002312	2787	R-NT2RP2002312	7867
	NT2RP2002316	F-NT2RP2002316	2788	R-NT2RP2002316	7868
	NT2RP2002325	F-NT2RP2002325	2789	R-NT2RP2002325	7869
	NT2RP2002333	F-NT2RP2002333	2790	R-NT2RP2002333	7870
	NT2RP2002373	F-NT2RP2002373	2791		
20	NT2RP2002385	F-NT2RP2002385	2792	R-NT2RP2002385	7871
	NT2RP2002394	F-NT2RP2002394	2793	R-NT2RP2002394	7872
	NT2RP2002408	F-NT2RP2002408	2794	R-NT2RP2002408	7873
	NT2RP2002426	F-NT2RP2002426	2795	R-NT2RP2002426	7874
25	NT2RP2002439	F-NT2RP2002439	2796	R-NT2RP2002439	7875
	NT2RP2002442	F-NT2RP2002442	2797		
	NT2RP2002457	F-NT2RP2002457	2798	R-NT2RP2002457	7876
	NT2RP2002464	F-NT2RP2002464	2799	R-NT2RP2002464	7877
30	NT2RP2002475	F-NT2RP2002475	2800	R-NT2RP2002475	7878
	NT2RP2002479	F-NT2RP2002479	2801	R-ntntntntntntntntntntnt	7879
	NT2RP2002498	F-NT2RP2002498	2802	R-NT2RP2002498	7880
	NT2RP2002503	F-NT2RP2002503	2803	R-NT2RP2002503	7881
35	NT2RP2002504	F-NT2RP2002504	2804	R-NT2RP2002504	7882
	NT2RP2002520	F-NT2RP2002520	2805	R-NT2RP2002520	7883
	NT2RP2002537	F-NT2RP2002537	2806	R-NT2RP2002537	7884
	NT2RP2002546	F-NT2RP2002546	2807	R-NT2RP2002546	7885
40	NT2RP2002549	F-NT2RP2002549	2808	R-NT2RP2002549	7886
	NT2RP2002591	F-NT2RP2002591	2809	R-NT2RP2002591	7887
	NT2RP2002595	F-NT2RP2002595	2810	R-NT2RP2002595	7888
	NT2RP2002606	F-NT2RP2002606	2811	R-NT2RP2002606	7889
	NT2RP2002609	F-NT2RP2002609	2812	R-NT2RP2002609	7890
45	NT2RP2002618	F-NT2RP2002618	2813	R-NT2RP2002618	7891
	NT2RP2002621	F-NT2RP2002621	2814	R-NT2RP2002621	7892
	NT2RP2002643	F-NT2RP2002643	2815	R-NT2RP2002643	7893
	NT2RP2002672	F-NT2RP2002672	2816	R-NT2RP2002672	7894
50	NT2RP2002701	F-NT2RP2002701	2817	R-NT2RP2002701	7895
	NT2RP2002706	F-NT2RP2002706	2818	R-NT2RP2002706	7896
	NT2RP2002710	F-NT2RP2002710	2819	R-NT2RP2002710	7897
	NT2RP2002727	F-NT2RP2002727	2820	R-NT2RP2002727	7898
55	NT2RP2002736	F-NT2RP2002736	2821	R-NT2RP2002736	7899

	NT2RP2002740	F-NT2RP2002740	2822	R-NT2RP2002740	7900
	NT2RP2002741	F-NT2RP2002741	2823	R-NT2RP2002741	7901
	NT2RP2002750	F-NT2RP2002750	2824	R-NT2RP2002750	7902
5	NT2RP2002752	F-NT2RP2002752	2825	R-NT2RP2002752	7903
	NT2RP2002753	F-NT2RP2002753	2826	R-NT2RP2002753	7904
	NT2RP2002769	F-NT2RP2002769	2827	R-NT2RP2002769	7905
	NT2RP2002778	F-NT2RP2002778	2828	R-NT2RP2002778	7906
10	NT2RP2002800	F-NT2RP2002800	2829	R-NT2RP2002800	7907
	NT2RP2002839	F-NT2RP2002839	2830	R-NT2RP2002839	7908
	NT2RP2002857	F-NT2RP2002857	2831	R-NT2RP2002857	7909
	NT2RP2002862	F-NT2RP2002862	2832	R-NT2RP2002862	7910
15	NT2RP2002880	F-NT2RP2002880	2833	R-NT2RP2002880	7911
	NT2RP2002891	F-NT2RP2002891	2834	R-NT2RP2002891	7912
	NT2RP2002925	F-NT2RP2002925	2835	R-NT2RP2002925	7913
	NT2RP2002928	F-NT2RP2002928	2836	R-NT2RP2002928	7914
20	NT2RP2002929	F-NT2RP2002929	2837	R-NT2RP2002929	7915
	NT2RP2002939	F-NT2RP2002939	2838		
	NT2RP2002954	F-NT2RP2002954	2839	R-NT2RP2002954	7916
	NT2RP2002959	F-NT2RP2002959	2840	R-NT2RP2002959	7917
	NT2RP2002979	F-NT2RP2002979	2841	R-NT2RP2002979	7918
25	NT2RP2002980	F-NT2RP2002980	2842	R-NT2RP2002980	7919
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	NT2RP2003034	F-NT2RP2003034	2847	R-NT2RP2003034	7924
	NT2RP2003073	F-NT2RP2003073	2848	R-NT2RP2003073	7925
	NT2RP2003099	F-NT2RP2003099	2849	R-NT2RP2003099	7926
35	NT2RP2003108	F-NT2RP2003108	2850	R-NT2RP2003108	7927
	NT2RP2003117	F-NT2RP2003117	2851	R-NT2RP2003117	7928
	NT2RP2003121	F-NT2RP2003121	2852	R-NT2RP2003121	7929
	NT2RP2003125	F-NT2RP2003125	2853	R-NT2RP2003125	7930
40	NT2RP2003129	F-NT2RP2003129	2854	R-NT2RP2003129	7931
	NT2RP2003137	F-NT2RP2003137	2855	R-NT2RP2003137	7932
	NT2RP2003157	F-NT2RP2003157	2856		
	NT2RP2003158	F-NT2RP2003158	2857		
	NT2RP2003161	F-NT2RP2003161	2858	R-NT2RP2003161	7933
45	NT2RP2003164	F-NT2RP2003164	2859	R-NT2RP2003164	7934
	NT2RP2003165	F-NT2RP2003165	2860	R-NT2RP2003165	7935
	NT2RP2003177	F-NT2RP2003177	2861	R-NT2RP2003177	7936
	NT2RP2003194	F-NT2RP2003194	2862	R-NT2RP2003194	7937
50	NT2RP2003206	F-NT2RP2003206	2863	R-NT2RP2003206	7938
	NT2RP2003228	F-NT2RP2003228	2864		
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	NT2RP2003237	F-NT2RP2003237	2866	R-NT2RP2003237	7940
55	NT2RP2003243	F-NT2RP2003243	2867	R-NT2RP2003243	7941

	NT2RP2003265	F-NT2RP2003265	2868	R-NT2RP2003265	7942
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	NT2RP2003293	F-NT2RP2003293	2873	R-NT2RP2003293	7947
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	NT2RP2003329	F-NT2RP2003329	2878	R-NT2RP2003329	7951
15	NT2RP2003339	F-NT2RP2003339	2879	R-NT2RP2003339	7952
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	NT2RP2003433	F-NT2RP2003433	2886	R-NT2RP2003433	7959
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	NT2RP2003466	F-NT2RP2003466	2890		
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	NT2RP2003567	F-NT2RP2003567	2902		
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	NT2RP3001799	F-NT2RP3001799	3378	R-NT2RP3001799	8428
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	NT2RP3001855	F-NT2RP3001855	3382	R-NT2RP3001855	8432
	NT2RP3001857	F-NT2RP3001857	3383		
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15	NT2RP3001898	F-NT2RP3001898	3385	R-NT2RP3001898	8434
	NT2RP3001915	F-NT2RP3001915	3386	R-NT2RP3001915	8435
	NT2RP3001926	F-NT2RP3001926	3387	R-NT2RP3001926	8436
	NT2RP3001929	F-NT2RP3001929	3388	R-NT2RP3001929	8437
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	NT2RP3001943	F-NT2RP3001943	3391	R-NT2RP3001943	8440
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25	NT2RP3001989	F-NT2RP3001989	3394	R-NT2RP3001989	8443
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	NT2RP3002033	F-NT2RP3002033	3399	R-NT2RP3002033	8448
	NT2RP3002045	F-NT2RP3002045	3400	R-NT2RP3002045	8449
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	NT2RP3002062	F-NT2RP3002062	3404	R-NT2RP3002062	8453
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	NT2RP3002108	F-NT2RP3002108	3409	R-NT2RP3002108	8458
	NT2RP3002142	F-NT2RP3002142	3410		
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	NT2RP3002147	F-NT2RP3002147	3412	R-NT2RP3002147	8460
	NT2RP3002151	F-NT2RP3002151	3413	R-NT2RP3002151	8461
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50	NT2RP3002165	F-NT2RP3002165	3415	R-NT2RP3002165	8463
	NT2RP3002166	F-NT2RP3002166	3416	R-NT2RP3002166	8464
	NT2RP3002173	F-NT2RP3002173	3417	R-NT2RP3002173	8465
	NT2RP3002181	F-NT2RP3002181	3418	R-NT2RP3002181	8466
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	NT2RP3002248	F-NT2RP3002248	3420	R-NT2RP3002248	8468
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	NT2RP3002352	F-NT2RP3002352	3429	R-NT2RP3002352	8477
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	NT2RP3002402	F-NT2RP3002402	3432		
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	NT2RP3002484	F-NT2RP3002484	3434	R-NT2RP3002484	8479
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	NT2RP3002545	F-NT2RP3002545	3438	R-NT2RP3002545	8483
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	NT2RP3002587	F-NT2RP3002587	3441	R-NT2RP3002587	8486
	NT2RP3002590	F-NT2RP3002590	3442	R-NT2RP3002590	8487
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	NT2RP3002660	F-NT2RP3002660	3449	R-NT2RP3002660	8492
	NT2RP3002663	F-NT2RP3002663	3450	R-NT2RP3002663	8493
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	NT2RP3002985	F-NT2RP3002985	3475		
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25	NT2RP3003121	F-NT2RP3003121	3485	R-NT2RP3003121	8527
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	NT2RP3003138	F-NT2RP3003138	3487	R-NT2RP3003138	8529
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	NT2RP3003353	F-NT2RP3003353	3514	R-NT2RP3003353	8554
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	NT2RP3003564	F-NT2RP3003564	3530	R-NT2RP3003564	8570
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	NT2RP3003621	F-NT2RP3003621	3534		
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30	NT2RP3003656	F-NT2RP3003656	3536	R-NT2RP3003656	8575
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45	NT2RP3003805	F-NT2RP3003805	3549	R-NT2RP3003805	8587
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50	NT2RP3003828	F-NT2RP3003828	3553	R-NT2RP3003828	8591
	NT2RP3003831	F-NT2RP3003831	3554	R-NT2RP3003831	8592
	NT2RP3003833	F-NT2RP3003833	3555	R-NT2RP3003833	8593
	NT2RP3003842	F-NT2RP3003842	3556	R-NT2RP3003842	8594
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5	NT2RP3003918	F-NT2RP3003918	3561	R-NT2RP3003918	8599
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	NT2RP3004145	F-NT2RP3004145	3575	R-NT2RP3004145	8613
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	NT2RP3004155	F-NT2RP3004155	3577	R-NT2RP3004155	8615
25	NT2RP3004189	F-NT2RP3004189	3578		
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	NT2RP3004207	F-NT2RP3004207	3580	R-NT2RP3004207	8617
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	NT2RP3004253	F-NT2RP3004253	3585	R-NT2RP3004253	8622
35	NT2RP3004258	F-NT2RP3004258	3586	R-NT2RP3004258	8623
	NT2RP3004262	F-NT2RP3004262	3587	R-NT2RP3004262	8624
	NT2RP3004282	F-NT2RP3004282	3588		
	NT2RP3004332	F-NT2RP3004332	3589		
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40	NT2RP3004341	F-NT2RP3004341	3591	R-NT2RP3004341	8626
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	NT2RP3004349	F-NT2RP3004349	3593	R-NT2RP3004349	8628
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	NT2RP3004428	F-NT2RP3004428	3597	R-NT2RP3004428	8632
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	NT2RP3004480	F-NT2RP3004480	3604	R-NT2RP3004480	8639
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	NT2RP3004498	F-NT2RP3004498	3606	R-NT2RP3004498	8641
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25	NT2RP4000008	F-NT2RP4000008	3623	R-NT2RP4000008	8656
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	NT2RP4000109	F-NT2RP4000109	3630	R-NT2RP4000109	8663
	NT2RP4000111	F-NT2RP4000111	3631		
35	NT2RP4000129	F-NT2RP4000129	3632	R-NT2RP4000129	8664
	NT2RP4000147	F-NT2RP4000147	3633	R-NT2RP4000147	8665
	NT2RP4000150	F-NT2RP4000150	3634	R-NT2RP4000150	8666
	NT2RP4000151	F-NT2RP4000151	3635	R-NT2RP4000151	8667
40	NT2RP4000159	F-NT2RP4000159	3636	R-NT2RP4000159	8668
	NT2RP4000167	F-NT2RP4000167	3637	R-NT2RP4000167	8669
	NT2RP4000185	F-NT2RP4000185	3638	R-NT2RP4000185	8670
	NT2RP4000210	F-NT2RP4000210	3639	R-NT2RP4000210	8671
45	NT2RP4000212	F-NT2RP4000212	3640	R-NT2RP4000212	8672
	NT2RP4000214	F-NT2RP4000214	3641	R-NT2RP4000214	8673
	NT2RP4000218	F-NT2RP4000218	3642	R-NT2RP4000218	8674
	NT2RP4000243	F-NT2RP4000243	3643	R-NT2RP4000243	8675
	NT2RP4000246	F-NT2RP4000246	3644	R-NT2RP4000246	8676
50	NT2RP4000259	F-NT2RP4000259	3645	R-NT2RP4000259	8677
	NT2RP4000263	F-NT2RP4000263	3646	R-NT2RP4000263	8678
	NT2RP4000290	F-NT2RP4000290	3647	R-nnnnnnnnnnnn	8679
	NT2RP4000312	F-NT2RP4000312	3648	R-NT2RP4000312	8680
55	NT2RP4000321	F-NT2RP4000321	3649	R-NT2RP4000321	8681

	NT2RP4000323	F-NT2RP4000323	3650	R-NT2RP4000323	8682
	NT2RP4000355	F-NT2RP4000355	3651	R-NT2RP4000355	8683
	NT2RP4000360	F-NT2RP4000360	3652	R-NT2RP4000360	8684
5	NT2RP4000367	F-NT2RP4000367	3653	R-NT2RP4000367	8685
	NT2RP4000370	F-NT2RP4000370	3654	R-NT2RP4000370	8686
	NT2RP4000376	F-NT2RP4000376	3655	R-NT2RP4000376	8687
	NT2RP4000381	F-NT2RP4000381	3656	R-NT2RP4000381	8688
10	NT2RP4000398	F-NT2RP4000398	3657		
	NT2RP4000415	F-NT2RP4000415	3658	R-NT2RP4000415	8689
	NT2RP4000417	F-NT2RP4000417	3659	R-NT2RP4000417	8690
	NT2RP4000424	F-NT2RP4000424	3660	R-NT2RP4000424	8691
15	NT2RP4000448	F-NT2RP4000448	3661	R-NT2RP4000448	8692
	NT2RP4000449	F-NT2RP4000449	3662	R-NT2RP4000449	8693
	NT2RP4000455	F-NT2RP4000455	3663	R-NT2RP4000455	8694
	NT2RP4000457	F-NT2RP4000457	3664	R-ntntntntntntntntntnt	8695
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	NT2RP4000481	F-NT2RP4000481	3666	R-ntntntntntntntntntnt	8697
	NT2RP4000498	F-NT2RP4000498	3667		
	NT2RP4000500	F-NT2RP4000500	3668	R-NT2RP4000500	8698
	NT2RP4000515	F-NT2RP4000515	3669	R-NT2RP4000515	8699
25	NT2RP4000517	F-NT2RP4000517	3670	R-NT2RP4000517	8700
	NT2RP4000518	F-NT2RP4000518	3671	R-NT2RP4000518	8701
	NT2RP4000519	F-NT2RP4000519	3672	R-NT2RP4000519	8702
	NT2RP4000524	F-NT2RP4000524	3673	R-NT2RP4000524	8703
30	NT2RP4000528	F-NT2RP4000528	3674	R-NT2RP4000528	8704
	NT2RP4000541	F-NT2RP4000541	3675	R-NT2RP4000541	8705
	NT2RP4000556	F-NT2RP4000556	3676	R-NT2RP4000556	8706
	NT2RP4000560	F-NT2RP4000560	3677		
35	NT2RP4000588	F-NT2RP4000588	3678	R-NT2RP4000588	8707
	NT2RP4000614	F-NT2RP4000614	3679	R-NT2RP4000614	8708
	NT2RP4000638	F-NT2RP4000638	3680	R-NT2RP4000638	8709
	NT2RP4000648	F-NT2RP4000648	3681	R-NT2RP4000648	8710
40	NT2RP4000657	F-NT2RP4000657	3682	R-NT2RP4000657	8711
	NT2RP4000704	F-NT2RP4000704	3683	R-NT2RP4000704	8712
	NT2RP4000713	F-NT2RP4000713	3684		
	NT2RP4000724	F-NT2RP4000724	3685	R-NT2RP4000724	8713
	NT2RP4000728	F-NT2RP4000728	3686	R-NT2RP4000728	8714
45	NT2RP4000737	F-NT2RP4000737	3687		
	NT2RP4000739	F-NT2RP4000739	3688	R-NT2RP4000739	8715
	NT2RP4000781	F-NT2RP4000781	3689	R-NT2RP4000781	8716
	NT2RP4000787	F-NT2RP4000787	3690		
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	NT2RP4000833	F-NT2RP4000833	3692	R-NT2RP4000833	8718
	NT2RP4000837	F-NT2RP4000837	3693	R-NT2RP4000837	8719
	NT2RP4000839	F-NT2RP4000839	3694		
55	NT2RP4000855	F-NT2RP4000855	3695	R-NT2RP4000855	8720

	NT2RP4000865	F-NT2RP4000865	3696	R-NT2RP4000865	8721
	NT2RP4000878	F-NT2RP4000878	3697	R-NT2RP4000878	8722
5	NT2RP4000879	F-NT2RP4000879	3698	R-NT2RP4000879	8723
	NT2RP4000907	F-NT2RP4000907	3699	R-ntnnnnnnnnnnnn	8724
	NT2RP4000915	F-NT2RP4000915	3700	R-ntnnnnnnnnnnnn	8725
	NT2RP4000918	F-NT2RP4000918	3701		
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	NT2RP4000927	F-NT2RP4000927	3703	R-ntnnnnnnnnnnnn	8727
	NT2RP4000928	F-NT2RP4000928	3704	R-NT2RP4000928	8728
	NT2RP4000929	F-NT2RP4000929	3705	R-NT2RP4000929	8729
15	NT2RP4000955	F-NT2RP4000955	3706	R-NT2RP4000955	8730
	NT2RP4000973	F-NT2RP4000973	3707	R-NT2RP4000973	8731
	NT2RP4000975	F-NT2RP4000975	3708	R-NT2RP4000975	8732
	NT2RP4000979	F-NT2RP4000979	3709	R-NT2RP4000979	8733
	NT2RP4000984	F-NT2RP4000984	3710	R-NT2RP4000984	8734
20	NT2RP4000989	F-NT2RP4000989	3711	R-NT2RP4000989	8735
	NT2RP4000996	F-NT2RP4000996	3712	R-NT2RP4000996	8736
	NT2RP4000997	F-NT2RP4000997	3713	R-NT2RP4000997	8737
	NT2RP4001004	F-NT2RP4001004	3714	R-NT2RP4001004	8738
25	NT2RP4001006	F-NT2RP4001006	3715	R-NT2RP4001006	8739
	NT2RP4001010	F-NT2RP4001010	3716	R-NT2RP4001010	8740
	NT2RP4001029	F-NT2RP4001029	3717	R-NT2RP4001029	8741
	NT2RP4001041	F-NT2RP4001041	3718	R-NT2RP4001041	8742
30	NT2RP4001057	F-NT2RP4001057	3719	R-NT2RP4001057	8743
	NT2RP4001064	F-NT2RP4001064	3720	R-NT2RP4001064	8744
	NT2RP4001078	F-NT2RP4001078	3721	R-NT2RP4001078	8745
	NT2RP4001079	F-NT2RP4001079	3722	R-NT2RP4001079	8746
35	NT2RP4001080	F-NT2RP4001080	3723	R-NT2RP4001080	8747
	NT2RP4001086	F-NT2RP4001086	3724	R-ntnnnnnnnnnnnn	8748
	NT2RP4001095	F-NT2RP4001095	3725	R-NT2RP4001095	8749
	NT2RP4001100	F-NT2RP4001100	3726	R-NT2RP4001100	8750
40	NT2RP4001117	F-NT2RP4001117	3727	R-NT2RP4001117	8751
	NT2RP4001122	F-NT2RP4001122	3728	R-NT2RP4001122	8752
	NT2RP4001126	F-NT2RP4001126	3729	R-NT2RP4001126	8753
	NT2RP4001138	F-NT2RP4001138	3730	R-NT2RP4001138	8754
	NT2RP4001143	F-NT2RP4001143	3731	R-NT2RP4001143	8755
45	NT2RP4001148	F-NT2RP4001148	3732	R-NT2RP4001148	8756
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	NT2RP4001150	F-NT2RP4001150	3734	R-NT2RP4001150	8758
	NT2RP4001159	F-NT2RP4001159	3735	R-NT2RP4001159	8759
50	NT2RP4001174	F-NT2RP4001174	3736	R-NT2RP4001174	8760
	NT2RP4001206	F-NT2RP4001206	3737	R-ntnnnnnnnnnnnn	8761
	NT2RP4001207	F-NT2RP4001207	3738	R-NT2RP4001207	8762
	NT2RP4001210	F-NT2RP4001210	3739	R-NT2RP4001210	8763
	NT2RP4001213	F-NT2RP4001213	3740	R-NT2RP4001213	8764
55	NT2RP4001219	F-NT2RP4001219	3741	R-NT2RP4001219	8765

	NT2RP4001228	F-NT2RP4001228	3742	R-NT2RP4001228	8766
	NT2RP4001235	F-NT2RP4001235	3743	R-NT2RP4001235	8767
	NT2RP4001256	F-NT2RP4001256	3744	R-NT2RP4001256	8768
5	NT2RP4001260	F-NT2RP4001260	3745	R-NT2RP4001260	8769
	NT2RP4001274	F-NT2RP4001274	3746	R-NT2RP4001274	8770
	NT2RP4001276	F-NT2RP4001276	3747	R-NT2RP4001276	8771
	NT2RP4001313	F-NT2RP4001313	3748	R-NT2RP4001313	8772
10	NT2RP4001315	F-NT2RP4001315	3749	R-NT2RP4001315	8773
	NT2RP4001336	F-NT2RP4001336	3750		
	NT2RP4001339	F-NT2RP4001339	3751	R-NT2RP4001339	8774
	NT2RP4001343	F-NT2RP4001343	3752		
15	NT2RP4001345	F-NT2RP4001345	3753	R-NT2RP4001345	8775
	NT2RP4001351	F-NT2RP4001351	3754	R-NT2RP4001351	8776
	NT2RP4001353	F-NT2RP4001353	3755	R-NT2RP4001353	8777
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20	NT2RP4001373	F-NT2RP4001373	3757	R-NT2RP4001373	8779
	NT2RP4001375	F-NT2RP4001375	3758	R-NT2RP4001375	8780
	NT2RP4001379	F-NT2RP4001379	3759	R-NT2RP4001379	8781
	NT2RP4001389	F-NT2RP4001389	3760	R-NT2RP4001389	8782
	NT2RP4001407	F-NT2RP4001407	3761	R-NT2RP4001407	8783
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	NT2RP4001442	F-NT2RP4001442	3764	R-NT2RP4001442	8786
	NT2RP4001447	F-NT2RP4001447	3765	R-NT2RP4001447	8787
30	NT2RP4001474	F-NT2RP4001474	3766	R-NT2RP4001474	8788
	NT2RP4001483	F-NT2RP4001483	3767	R-NT2RP4001483	8789
	NT2RP4001498	F-NT2RP4001498	3768	R-NT2RP4001498	8790
	NT2RP4001502	F-NT2RP4001502	3769	R-NT2RP4001502	8791
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	NT2RP4001529	F-NT2RP4001529	3772	R-NT2RP4001529	8794
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40	NT2RP4001551	F-NT2RP4001551	3774	R-NT2RP4001551	8796
	NT2RP4001555	F-NT2RP4001555	3775	R-NT2RP4001555	8797
	NT2RP4001567	F-NT2RP4001567	3776	R-NT2RP4001567	8798
	NT2RP4001568	F-NT2RP4001568	3777	R-NT2RP4001568	8799
	NT2RP4001571	F-NT2RP4001571	3778	R-NT2RP4001571	8800
45	NT2RP4001574	F-NT2RP4001574	3779	R-NT2RP4001574	8801
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	NT2RP4001592	F-NT2RP4001592	3781	R-NT2RP4001592	8803
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50	NT2RP4001614	F-NT2RP4001614	3783	R-NT2RP4001614	8805
	NT2RP4001634	F-NT2RP4001634	3784	R-NT2RP4001634	8806
	NT2RP4001638	F-NT2RP4001638	3785	R-NT2RP4001638	8807
	NT2RP4001644	F-NT2RP4001644	3786	R-NT2RP4001644	8808
55	NT2RP4001656	F-NT2RP4001656	3787	R-NT2RP4001656	8809

	NT2RP4001677	F-NT2RP4001677	3788	R-NT2RP4001677	8810
	NT2RP4001679	F-NT2RP4001679	3789		
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5	NT2RP4001725	F-NT2RP4001725	3791	R-NT2RP4001725	8812
	NT2RP4001730	F-NT2RP4001730	3792	R-ntntntntntntntntntnt	8813
	NT2RP4001739	F-NT2RP4001739	3793	R-NT2RP4001739	8814
	NT2RP4001753	F-NT2RP4001753	3794	R-NT2RP4001753	8815
10	NT2RP4001760	F-NT2RP4001760	3795	R-NT2RP4001760	8816
	NT2RP4001790	F-NT2RP4001790	3796	R-NT2RP4001790	8817
	NT2RP4001803	F-NT2RP4001803	3797	R-NT2RP4001803	8818
	NT2RP4001822	F-NT2RP4001822	3798	R-NT2RP4001822	8819
15	NT2RP4001823	F-NT2RP4001823	3799	R-NT2RP4001823	8820
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	NT2RP4001838	F-NT2RP4001838	3801	R-NT2RP4001838	8822
	NT2RP4001841	F-NT2RP4001841	3802		
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	NT2RP4001861	F-NT2RP4001861	3804		
	NT2RP4001889	F-NT2RP4001889	3805	R-NT2RP4001889	8824
	NT2RP4001893	F-NT2RP4001893	3806	R-NT2RP4001893	8825
	NT2RP4001896	F-NT2RP4001896	3807	R-NT2RP4001896	8826
25	NT2RP4001901	F-NT2RP4001901	3808	R-NT2RP4001901	8827
	NT2RP4001927	F-NT2RP4001927	3809	R-NT2RP4001927	8828
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	NT2RP4001946	F-NT2RP4001946	3811	R-NT2RP4001946	8830
30	NT2RP4001950	F-NT2RP4001950	3812	R-NT2RP4001950	8831
	NT2RP4001953	F-NT2RP4001953	3813	R-NT2RP4001953	8832
	NT2RP4001966	F-NT2RP4001966	3814	R-NT2RP4001966	8833
	NT2RP4001975	F-NT2RP4001975	3815	R-NT2RP4001975	8834
35	NT2RP4002018	F-NT2RP4002018	3816	R-NT2RP4002018	8835
	NT2RP4002047	F-NT2RP4002047	3817	R-NT2RP4002047	8836
	NT2RP4002052	F-NT2RP4002052	3818	R-NT2RP4002052	8837
	NT2RP4002058	F-NT2RP4002058	3819	R-NT2RP4002058	8838
40	NT2RP4002071	F-NT2RP4002071	3820	R-NT2RP4002071	8839
	NT2RP4002075	F-NT2RP4002075	3821	R-NT2RP4002075	8840
	NT2RP4002078	F-NT2RP4002078	3822	R-NT2RP4002078	8841
	NT2RP4002081	F-NT2RP4002081	3823	R-ntntntntntntntntntnt	8842
	NT2RP4002083	F-NT2RP4002083	3824	R-NT2RP4002083	8843
45	NT2RP4002408	F-NT2RP4002408	3825	R-NT2RP4002408	8844
	NT2RP4002791	F-NT2RP4002791	3826	R-NT2RP4002791	8845
	NT2RP4002888	F-NT2RP4002888	3827	R-NT2RP4002888	8846
	NT2RP4002905	F-NT2RP4002905	3828	R-NT2RP4002905	8847
50	NT2RP5003459	F-NT2RP5003459	3829		
	NT2RP5003461	F-NT2RP5003461	3830		
	NT2RP5003477	F-NT2RP5003477	3831		
	NT2RP5003492	F-NT2RP5003492	3832		
55	NT2RP5003500	F-NT2RP5003500	3833		

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	NT2RP5003522	F-NT2RP5003522	3836	
5	NT2RP5003524	F-NT2RP5003524	3837	
	NT2RP5003534	F-NT2RP5003534	3838	
	OVARC1000001	F-OVARC1000001	3839	R-OVARC1000001 8848
	OVARC1000004	F-OVARC1000004	3840	R-OVARC1000004 8849
10	OVARC1000006	F-OVARC1000006	3841	R-OVARC1000006 8850
	OVARC1000013	F-OVARC1000013	3842	R-OVARC1000013 8851
	OVARC1000014	F-OVARC1000014	3843	R-OVARC1000014 8852
	OVARC1000017	F-OVARC1000017	3844	R-OVARC1000017 8853
15	OVARC1000035	F-OVARC1000035	3845	R-OVARC1000035 8854
	OVARC1000058	F-OVARC1000058	3846	R-OVARC1000058 8855
	OVARC1000060	F-OVARC1000060	3847	R-OVARC1000060 8856
	OVARC1000068	F-OVARC1000068	3848	R-OVARC1000068 8857
20	OVARC1000071	F-OVARC1000071	3849	R-OVARC1000071 8858
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	OVARC1000087	F-OVARC1000087	3851	R-nnnnnnnnnnnnn 8860
	OVARC1000091	F-OVARC1000091	3852	R-OVARC1000091 8861
	OVARC1000092	F-OVARC1000092	3853	R-OVARC1000092 8862
25	OVARC1000106	F-OVARC1000106	3854	R-OVARC1000106 8863
	OVARC1000109	F-OVARC1000109	3855	
	OVARC1000113	F-OVARC1000113	3856	R-OVARC1000113 8864
	OVARC1000114	F-OVARC1000114	3857	R-OVARC1000114 8865
30	OVARC1000133	F-OVARC1000133	3858	R-OVARC1000133 8866
	OVARC1000139	F-OVARC1000139	3859	
	OVARC1000145	F-OVARC1000145	3860	R-OVARC1000145 8867
	OVARC1000148	F-OVARC1000148	3861	R-OVARC1000148 8868
35	OVARC1000151	F-OVARC1000151	3862	R-OVARC1000151 8869
	OVARC1000168	F-OVARC1000168	3863	R-OVARC1000168 8870
	OVARC1000191	F-OVARC1000191	3864	R-OVARC1000191 8871
	OVARC1000198	F-OVARC1000198	3865	R-OVARC1000198 8872
40	OVARC1000209	F-OVARC1000209	3866	R-OVARC1000209 8873
	OVARC1000212	F-OVARC1000212	3867	R-OVARC1000212 8874
	OVARC1000240	F-OVARC1000240	3868	R-OVARC1000240 8875
	OVARC1000241	F-OVARC1000241	3869	R-OVARC1000241 8876
45	OVARC1000288	F-OVARC1000288	3870	R-OVARC1000288 8877
	OVARC1000302	F-OVARC1000302	3871	R-OVARC1000302 8878
	OVARC1000304	F-OVARC1000304	3872	R-OVARC1000304 8879
	OVARC1000309	F-OVARC1000309	3873	R-OVARC1000309 8880
	OVARC1000321	F-OVARC1000321	3874	R-OVARC1000321 8881
50	OVARC1000326	F-OVARC1000326	3875	R-OVARC1000326 8882
	OVARC1000335	F-OVARC1000335	3876	R-OVARC1000335 8883
	OVARC1000347	F-OVARC1000347	3877	R-OVARC1000347 8884
	OVARC1000384	F-OVARC1000384	3878	R-OVARC1000384 8885
55	OVARC1000408	F-OVARC1000408	3879	R-OVARC1000408 8886



	OVARC1000411	F-OVARC1000411	3880	R-OVARC1000411	8887
	OVARC1000414	F-OVARC1000414	3881	R-OVARC1000414	8888
	OVARC1000420	F-OVARC1000420	3882	R-OVARC1000420	8889
5	OVARC1000427	F-OVARC1000427	3883	R-OVARC1000427	8890
	OVARC1000431	F-OVARC1000431	3884	R-OVARC1000431	8891
	OVARC1000437	F-OVARC1000437	3885	R-OVARC1000437	8892
	OVARC1000440	F-OVARC1000440	3886	R-OVARC1000440	8893
10	OVARC1000442	F-OVARC1000442	3887	R-OVARC1000442	8894
	OVARC1000443	F-OVARC1000443	3888	R-OVARC1000443	8895
	OVARC1000461	F-OVARC1000461	3889	R-OVARC1000461	8896
15	OVARC1000465	F-OVARC1000465	3890	R-OVARC1000465	8897
	OVARC1000466	F-OVARC1000466	3891	R-OVARC1000466	8898
	OVARC1000473	F-OVARC1000473	3892	R-OVARC1000473	8899
	OVARC1000479	F-OVARC1000479	3893	R-OVARC1000479	8900
	OVARC1000486	F-OVARC1000486	3894	R-OVARC1000486	8901
20	OVARC1000496	F-OVARC1000496	3895	R-OVARC1000496	8902
	OVARC1000520	F-OVARC1000520	3896	R-OVARC1000520	8903
	OVARC1000526	F-OVARC1000526	3897	R-OVARC1000526	8904
	OVARC1000533	F-OVARC1000533	3898	R-OVARC1000533	8905
25	OVARC1000543	F-OVARC1000543	3899	R-OVARC1000543	8906
	OVARC1000556	F-OVARC1000556	3900	R-OVARC1000556	8907
	OVARC1000557	F-OVARC1000557	3901	R-OVARC1000557	8908
	OVARC1000564	F-OVARC1000564	3902	R-OVARC1000564	8909
30	OVARC1000573	F-OVARC1000573	3903	R-OVARC1000573	8910
	OVARC1000576	F-OVARC1000576	3904		
	OVARC1000578	F-OVARC1000578	3905	R-OVARC1000578	8911
	OVARC1000588	F-OVARC1000588	3906	R-OVARC1000588	8912
	OVARC1000605	F-OVARC1000605	3907	R-OVARC1000605	8913
35	OVARC1000622	F-OVARC1000622	3908	R-OVARC1000622	8914
	OVARC1000640	F-OVARC1000640	3909	R-OVARC1000640	8915
	OVARC1000649	F-OVARC1000649	3910		
	OVARC1000661	F-OVARC1000661	3911	R-OVARC1000661	8916
40	OVARC1000678	F-OVARC1000678	3912	R-OVARC1000678	8917
	OVARC1000679	F-OVARC1000679	3913	R-nnnnnnnnnnnn	8918
	OVARC1000681	F-OVARC1000681	3914	R-OVARC1000681	8919
	OVARC1000682	F-OVARC1000682	3915		
45	OVARC1000689	F-OVARC1000689	3916	R-OVARC1000689	8920
	OVARC1000700	F-OVARC1000700	3917	R-OVARC1000700	8921
	OVARC1000703	F-OVARC1000703	3918	R-OVARC1000703	8922
	OVARC1000722	F-OVARC1000722	3919		
	OVARC1000730	F-OVARC1000730	3920	R-OVARC1000730	8923
50	OVARC1000746	F-OVARC1000746	3921	R-OVARC1000746	8924
	OVARC1000769	F-OVARC1000769	3922	R-OVARC1000769	8925
	OVARC1000771	F-OVARC1000771	3923	R-OVARC1000771	8926
	OVARC1000781	F-OVARC1000781	3924	R-OVARC1000781	8927
55	OVARC1000787	F-OVARC1000787	3925	R-OVARC1000787	8928

	OVARC1000800	F-OVARC1000800	3926	R-OVARC1000800	8929
	OVARC1000802	F-OVARC1000802	3927	R-OVARC1000802	8930
	OVARC1000834	F-OVARC1000834	3928	R-OVARC1000834	8931
5	OVARC1000846	F-OVARC1000846	3929	R-OVARC1000846	8932
	OVARC1000850	F-OVARC1000850	3930	R-OVARC1000850	8933
	OVARC1000862	F-OVARC1000862	3931	R-OVARC1000862	8934
	OVARC1000876	F-OVARC1000876	3932	R-OVARC1000876	8935
10	OVARC1000883	F-OVARC1000883	3933	R-OVARC1000883	8936
	OVARC1000885	F-OVARC1000885	3934	R-OVARC1000885	8937
	OVARC1000886	F-OVARC1000886	3935	R-OVARC1000886	8938
	OVARC1000890	F-OVARC1000890	3936		
15	OVARC1000891	F-OVARC1000891	3937	R-OVARC1000891	8939
	OVARC1000897	F-OVARC1000897	3938	R-OVARC1000897	8940
	OVARC1000912	F-OVARC1000912	3939	R-OVARC1000912	8941
	OVARC1000915	F-OVARC1000915	3940	R-OVARC1000915	8942
20	OVARC1000924	F-OVARC1000924	3941	R-OVARC1000924	8943
	OVARC1000936	F-OVARC1000936	3942	R-OVARC1000936	8944
	OVARC1000937	F-OVARC1000937	3943	R-OVARC1000937	8945
	OVARC1000945	F-OVARC1000945	3944	R-OVARC1000945	8946
	OVARC1000948	F-OVARC1000948	3945	R-OVARC1000948	8947
25	OVARC1000959	F-OVARC1000959	3946	R-OVARC1000959	8948
	OVARC1000960	F-OVARC1000960	3947	R-OVARC1000960	8949
	OVARC1000964	F-OVARC1000964	3948		
	OVARC1000971	F-OVARC1000971	3949	R-OVARC1000971	8950
30	OVARC1000984	F-OVARC1000984	3950	R-OVARC1000984	8951
	OVARC1000996	F-OVARC1000996	3951	R-OVARC1000996	8952
	OVARC1000999	F-OVARC1000999	3952	R-OVARC1000999	8953
	OVARC1001000	F-OVARC1001000	3953	R-OVARC1001000	8954
35	OVARC1001004	F-OVARC1001004	3954	R-OVARC1001004	8955
	OVARC1001010	F-OVARC1001010	3955	R-OVARC1001010	8956
	OVARC1001011	F-OVARC1001011	3956	R-OVARC1001011	8957
	OVARC1001032	F-OVARC1001032	3957	R-OVARC1001032	8958
40	OVARC1001034	F-OVARC1001034	3958	R-OVARC1001034	8959
	OVARC1001038	F-OVARC1001038	3959	R-OVARC1001038	8960
	OVARC1001040	F-OVARC1001040	3960	R-OVARC1001040	8961
	OVARC1001044	F-OVARC1001044	3961	R-OVARC1001044	8962
	OVARC1001051	F-OVARC1001051	3962	R-OVARC1001051	8963
45	OVARC1001055	F-OVARC1001055	3963	R-OVARC1001055	8964
	OVARC1001062	F-OVARC1001062	3964	R-OVARC1001062	8965
	OVARC1001065	F-OVARC1001065	3965		
	OVARC1001068	F-OVARC1001068	3966	R-OVARC1001068	8966
50	OVARC1001072	F-OVARC1001072	3967	R-OVARC1001072	8967
	OVARC1001074	F-OVARC1001074	3968	R-OVARC1001074	8968
	OVARC1001085	F-OVARC1001085	3969	R-OVARC1001085	8969
	OVARC1001092	F-OVARC1001092	3970	R-OVARC1001092	8970
55	OVARC1001107	F-OVARC1001107	3971		

	OVARC1001113	F-OVARC1001113	3972	R-OVARC1001113	8971
	OVARC1001117	F-OVARC1001117	3973	R-OVARC1001117	8972
	OVARC1001118	F-OVARC1001118	3974	R-OVARC1001118	8973
5	OVARC1001129	F-OVARC1001129	3975	R-OVARC1001129	8974
	OVARC1001154	F-OVARC1001154	3976		
	OVARC1001161	F-OVARC1001161	3977	R-OVARC1001161	8975
	OVARC1001162	F-OVARC1001162	3978	R-OVARC1001162	8976
10	OVARC1001167	F-OVARC1001167	3979	R-OVARC1001167	8977
	OVARC1001169	F-OVARC1001169	3980	R-OVARC1001169	8978
	OVARC1001170	F-OVARC1001170	3981	R-OVARC1001170	8979
	OVARC1001171	F-OVARC1001171	3982		
	OVARC1001173	F-OVARC1001173	3983	R-OVARC1001173	8980
15	OVARC1001176	F-OVARC1001176	3984		
	OVARC1001180	F-OVARC1001180	3985	R-OVARC1001180	8981
	OVARC1001188	F-OVARC1001188	3986	R-OVARC1001188	8982
	OVARC1001200	F-OVARC1001200	3987	R-OVARC1001200	8983
20	OVARC1001232	F-OVARC1001232	3988	R-OVARC1001232	8984
	OVARC1001240	F-OVARC1001240	3989	R-OVARC1001240	8985
	OVARC1001243	F-OVARC1001243	3990	R-OVARC1001243	8986
	OVARC1001244	F-OVARC1001244	3991		
25	OVARC1001261	F-OVARC1001261	3992	R-OVARC1001261	8987
	OVARC1001268	F-OVARC1001268	3993	R-OVARC1001268	8988
	OVARC1001270	F-OVARC1001270	3994	R-OVARC1001270	8989
	OVARC1001271	F-OVARC1001271	3995	R-OVARC1001271	8990
30	OVARC1001282	F-OVARC1001282	3996	R-OVARC1001282	8991
	OVARC1001296	F-OVARC1001296	3997	R-OVARC1001296	8992
	OVARC1001306	F-OVARC1001306	3998	R-nnnnnnnnnnnnn	8993
	OVARC1001329	F-OVARC1001329	3999	R-OVARC1001329	8994
35	OVARC1001330	F-OVARC1001330	4000	R-OVARC1001330	8995
	OVARC1001339	F-OVARC1001339	4001	R-OVARC1001339	8996
	OVARC1001341	F-OVARC1001341	4002	R-OVARC1001341	8997
	OVARC1001342	F-OVARC1001342	4003	R-OVARC1001342	8998
40	OVARC1001344	F-OVARC1001344	4004	R-OVARC1001344	8999
	OVARC1001357	F-OVARC1001357	4005	R-OVARC1001357	9000
	OVARC1001360	F-OVARC1001360	4006	R-OVARC1001360	9001
	OVARC1001369	F-OVARC1001369	4007	R-OVARC1001369	9002
	OVARC1001372	F-OVARC1001372	4008	R-OVARC1001372	9003
45	OVARC1001376	F-OVARC1001376	4009	R-OVARC1001376	9004
	OVARC1001381	F-OVARC1001381	4010	R-OVARC1001381	9005
	OVARC1001391	F-OVARC1001391	4011	R-OVARC1001391	9006
	OVARC1001399	F-OVARC1001399	4012	R-nnnnnnnnnnnnn	9007
50	OVARC1001417	F-OVARC1001417	4013	R-OVARC1001417	9008
	OVARC1001419	F-OVARC1001419	4014	R-OVARC1001419	9009
	OVARC1001425	F-OVARC1001425	4015	R-OVARC1001425	9010
	OVARC1001436	F-OVARC1001436	4016	R-OVARC1001436	9011
55	OVARC1001442	F-OVARC1001442	4017	R-OVARC1001442	9012

	OVARC1001453	F-OVARC1001453	4018	R-OVARC1001453	9013
	OVARC1001476	F-OVARC1001476	4019	R-OVARC1001476	9014
	OVARC1001480	F-OVARC1001480	4020	R-OVARC1001480	9015
5	OVARC1001489	F-OVARC1001489	4021	R-OVARC1001489	9016
	OVARC1001496	F-OVARC1001496	4022	R-OVARC1001496	9017
	OVARC1001506	F-OVARC1001506	4023	R-OVARC1001506	9018
	OVARC1001525	F-OVARC1001525	4024	R-OVARC1001525	9019
10	OVARC1001542	F-OVARC1001542	4025	R-OVARC1001542	9020
	OVARC1001547	F-OVARC1001547	4026	R-OVARC1001547	9021
	OVARC1001555	F-OVARC1001555	4027		
	OVARC1001577	F-OVARC1001577	4028	R-OVARC1001577	9022
15	OVARC1001600	F-OVARC1001600	4029	R-OVARC1001600	9023
	OVARC1001610	F-OVARC1001610	4030	R-OVARC1001610	9024
	OVARC1001611	F-OVARC1001611	4031	R-OVARC1001611	9025
	OVARC1001615	F-OVARC1001615	4032	R-OVARC1001615	9026
20	OVARC1001668	F-OVARC1001668	4033	R-OVARC1001668	9027
	OVARC1001702	F-OVARC1001702	4034	R-OVARC1001702	9028
	OVARC1001703	F-OVARC1001703	4035	R-OVARC1001703	9029
	OVARC1001711	F-OVARC1001711	4036	R-OVARC1001711	9030
	OVARC1001713	F-OVARC1001713	4037		
25	OVARC1001726	F-OVARC1001726	4038	R-OVARC1001726	9031
	OVARC1001731	F-OVARC1001731	4039	R-OVARC1001731	9032
	OVARC1001745	F-OVARC1001745	4040	R-OVARC1001745	9033
	OVARC1001762	F-OVARC1001762	4041	R-nnnnnnnnnnnnn	9034
30	OVARC1001766	F-OVARC1001766	4042	R-OVARC1001766	9035
	OVARC1001767	F-OVARC1001767	4043	R-nnnnnnnnnnnnn	9036
	OVARC1001768	F-OVARC1001768	4044	R-OVARC1001768	9037
	OVARC1001791	F-OVARC1001791	4045	R-OVARC1001791	9038
35	OVARC1001795	F-OVARC1001795	4046	R-OVARC1001795	9039
	OVARC1001802	F-OVARC1001802	4047	R-OVARC1001802	9040
	OVARC1001805	F-OVARC1001805	4048	R-OVARC1001805	9041
	OVARC1001809	F-OVARC1001809	4049		
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40	OVARC1001813	F-OVARC1001813	4051	R-OVARC1001813	9043
	OVARC1001820	F-OVARC1001820	4052	R-OVARC1001820	9044
	OVARC1001828	F-OVARC1001828	4053	R-OVARC1001828	9045
	OVARC1001846	F-OVARC1001846	4054	R-OVARC1001846	9046
45	OVARC1001861	F-OVARC1001861	4055	R-OVARC1001861	9047
	OVARC1001873	F-OVARC1001873	4056	R-OVARC1001873	9048
	OVARC1001879	F-OVARC1001879	4057	R-OVARC1001879	9049
	OVARC1001880	F-OVARC1001880	4058	R-OVARC1001880	9050
50	OVARC1001883	F-OVARC1001883	4059	R-OVARC1001883	9051
	OVARC1001900	F-OVARC1001900	4060	R-OVARC1001900	9052
	OVARC1001901	F-OVARC1001901	4061	R-OVARC1001901	9053
	OVARC1001911	F-OVARC1001911	4062	R-OVARC1001911	9054
55	OVARC1001916	F-OVARC1001916	4063	R-OVARC1001916	9055

	OVARC1001928	F-OVARC1001928	4064	R-OVARC1001928	9056
	OVARC1001942	F-OVARC1001942	4065	R-OVARC1001942	9057
	OVARC1001943	F-OVARC1001943	4066	R-OVARC1001943	9058
5	OVARC1001949	F-OVARC1001949	4067	R-OVARC1001949	9059
	OVARC1001950	F-OVARC1001950	4068	R-OVARC1001950	9060
	OVARC1001987	F-OVARC1001987	4069	R-OVARC1001987	9061
	OVARC1001989	F-OVARC1001989	4070	R-OVARC1001989	9062
10	OVARC1002044	F-OVARC1002044	4071	R-OVARC1002044	9063
	OVARC1002050	F-OVARC1002050	4072	R-OVARC1002050	9064
	OVARC1002066	F-OVARC1002066	4073	R-OVARC1002066	9065
	OVARC1002082	F-OVARC1002082	4074	R-OVARC1002082	9066
15	OVARC1002107	F-OVARC1002107	4075	R-OVARC1002107	9067
	OVARC1002112	F-OVARC1002112	4076		
	OVARC1002127	F-OVARC1002127	4077	R-OVARC1002127	9068
	OVARC1002138	F-OVARC1002138	4078	R-OVARC1002138	9069
	OVARC1002143	F-OVARC1002143	4079	R-OVARC1002143	9070
20	OVARC1002156	F-OVARC1002156	4080	R-OVARC1002156	9071
	OVARC1002158	F-OVARC1002158	4081	R-OVARC1002158	9072
	OVARC1002165	F-OVARC1002165	4082	R-OVARC1002165	9073
	OVARC1002182	F-OVARC1002182	4083	R-OVARC1002182	9074
25	PLACE1000004	F-PLACE1000004	4084	R-PLACE1000004	9075
	PLACE1000005	F-PLACE1000005	4085	R-PLACE1000005	9076
	PLACE1000007	F-PLACE1000007	4086	R-PLACE1000007	9077
	PLACE1000014	F-PLACE1000014	4087	R-PLACE1000014	9078
30	PLACE1000031	F-PLACE1000031	4088	R-PLACE1000031	9079
	PLACE1000040	F-PLACE1000040	4089	R-PLACE1000040	9080
	PLACE1000048	F-PLACE1000048	4090	R-PLACE1000048	9081
	PLACE1000050	F-PLACE1000050	4091	R-PLACE1000050	9082
35	PLACE1000061	F-PLACE1000061	4092	R-PLACE1000061	9083
	PLACE1000066	F-PLACE1000066	4093	R-PLACE1000066	9084
	PLACE1000078	F-PLACE1000078	4094	R-PLACE1000078	9085
	PLACE1000081	F-PLACE1000081	4095	R-PLACE1000081	9086
	PLACE1000094	F-PLACE1000094	4096	R-PLACE1000094	9087
40	PLACE1000133	F-PLACE1000133	4097	R-PLACE1000133	9088
	PLACE1000142	F-PLACE1000142	4098	R-PLACE1000142	9089
	PLACE1000184	F-PLACE1000184	4099	R-PLACE1000184	9090
	PLACE1000185	F-PLACE1000185	4100	R-PLACE1000185	9091
45	PLACE1000213	F-PLACE1000213	4101	R-PLACE1000213	9092
	PLACE1000214	F-PLACE1000214	4102	R-PLACE1000214	9093
	PLACE1000236	F-PLACE1000236	4103	R-PLACE1000236	9094
	PLACE1000246	F-PLACE1000246	4104	R-PLACE1000246	9095
50	PLACE1000292	F-PLACE1000292	4105	R-PLACE1000292	9096
	PLACE1000308	F-PLACE1000308	4106		
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	PLACE1000347	F-PLACE1000347	4108	R-PLACE1000347	9098
55	PLACE1000374	F-PLACE1000374	4109	R-PLACE1000374	9099

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	PLACE1000401	F-PLACE1000401	4112	R-PLACE1000401	9102
5	PLACE1000406	F-PLACE1000406	4113	R-PLACE1000406	9103
	PLACE1000420	F-PLACE1000420	4114	R-PLACE1000420	9104
	PLACE1000421	F-PLACE1000421	4115	R-PLACE1000421	9105
	PLACE1000424	F-PLACE1000424	4116	R-PLACE1000424	9106
10	PLACE1000435	F-PLACE1000435	4117	R-PLACE1000435	9107
	PLACE1000444	F-PLACE1000444	4118	R-PLACE1000444	9108
	PLACE1000453	F-PLACE1000453	4119	R-PLACE1000453	9109
	PLACE1000481	F-PLACE1000481	4120	R-PLACE1000481	9110
	PLACE1000492	F-PLACE1000492	4121	R-PLACE1000492	9111
15	PLACE1000540	F-PLACE1000540	4122	R-PLACE1000540	9112
	PLACE1000547	F-PLACE1000547	4123	R-PLACE1000547	9113
	PLACE1000562	F-PLACE1000562	4124	R-PLACE1000562	9114
	PLACE1000564	F-PLACE1000564	4125	R-PLACE1000564	9115
20	PLACE1000583	F-PLACE1000583	4126	R-PLACE1000583	9116
	PLACE1000588	F-PLACE1000588	4127	R-nnnnnnnnnnnnn	9117
	PLACE1000596	F-PLACE1000596	4128	R-PLACE1000596	9118
	PLACE1000599	F-PLACE1000599	4129	R-PLACE1000599	9119
25	PLACE1000610	F-PLACE1000610	4130	R-PLACE1000610	9120
	PLACE1000611	F-PLACE1000611	4131		
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	PLACE1000653	F-PLACE1000653	4133	R-PLACE1000653	9122
30	PLACE1000656	F-PLACE1000656	4134	R-PLACE1000656	9123
	PLACE1000706	F-PLACE1000706	4135	R-PLACE1000706	9124
	PLACE1000712	F-PLACE1000712	4136	R-PLACE1000712	9125
	PLACE1000716	F-PLACE1000716	4137	R-PLACE1000716	9126
35	PLACE1000748	F-PLACE1000748	4138	R-PLACE1000748	9127
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	PLACE1000755	F-PLACE1000755	4140	R-PLACE1000755	9129
	PLACE1000769	F-PLACE1000769	4141	R-PLACE1000769	9130
	PLACE1000785	F-PLACE1000785	4142	R-PLACE1000785	9131
40	PLACE1000786	F-PLACE1000786	4143	R-PLACE1000786	9132
	PLACE1000793	F-PLACE1000793	4144	R-nnnnnnnnnnnnn	9133
	PLACE1000798	F-PLACE1000798	4145	R-PLACE1000798	9134
	PLACE1000841	F-PLACE1000841	4146	R-PLACE1000841	9135
45	PLACE1000849	F-PLACE1000849	4147	R-nnnnnnnnnnnnn	9136
	PLACE1000856	F-PLACE1000856	4148	R-PLACE1000856	9137
	PLACE1000863	F-PLACE1000863	4149	R-PLACE1000863	9138
	PLACE1000909	F-PLACE1000909	4150	R-PLACE1000909	9139
50	PLACE1000931	F-PLACE1000931	4151	R-PLACE1000931	9140
	PLACE1000948	F-PLACE1000948	4152	R-PLACE1000948	9141
	PLACE1000972	F-PLACE1000972	4153	R-PLACE1000972	9142
	PLACE1000977	F-PLACE1000977	4154	R-PLACE1000977	9143
55	PLACE1000979	F-PLACE1000979	4155	R-PLACE1000979	9144

	PLACE1000987	F-PLACE1000987	4156		
	PLACE1001000	F-PLACE1001000	4157	R-PLACE1001000	9145
	PLACE1001007	F-PLACE1001007	4158	R-PLACE1001007	9146
5	PLACE1001010	F-PLACE1001010	4159	R-PLACE1001010	9147
	PLACE1001015	F-PLACE1001015	4160	R-PLACE1001015	9148
	PLACE1001024	F-PLACE1001024	4161	R-PLACE1001024	9149
	PLACE1001036	F-PLACE1001036	4162	R-PLACE1001036	9150
10	PLACE1001054	F-PLACE1001054	4163		
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	PLACE1001076	F-PLACE1001076	4165	R-PLACE1001076	9152
	PLACE1001088	F-PLACE1001088	4166	R-PLACE1001088	9153
	PLACE1001092	F-PLACE1001092	4167	R-PLACE1001092	9154
15	PLACE1001104	F-PLACE1001104	4168	R-PLACE1001104	9155
	PLACE1001118	F-PLACE1001118	4169	R-PLACE1001118	9156
	PLACE1001136	F-PLACE1001136	4170	R-PLACE1001136	9157
	PLACE1001168	F-PLACE1001168	4171	R-PLACE1001168	9158
20	PLACE1001171	F-PLACE1001171	4172	R-PLACE1001171	9159
	PLACE1001185	F-PLACE1001185	4173	R-PLACE1001185	9160
	PLACE1001238	F-PLACE1001238	4174	R-PLACE1001238	9161
	PLACE1001241	F-PLACE1001241	4175	R-PLACE1001241	9162
25	PLACE1001257	F-PLACE1001257	4176	R-PLACE1001257	9163
	PLACE1001272	F-PLACE1001272	4177	R-PLACE1001272	9164
	PLACE1001279	F-PLACE1001279	4178	R-PLACE1001279	9165
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30	PLACE1001294	F-PLACE1001294	4180	R-PLACE1001294	9167
	PLACE1001304	F-PLACE1001304	4181	R-PLACE1001304	9168
	PLACE1001311	F-PLACE1001311	4182	R-PLACE1001311	9169
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	PLACE1004836	F-PLACE1004836	4467	R-PLACE1004836	9443
	PLACE1004838	F-PLACE1004838	4468	R-PLACE1004838	9444
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45	PLACE1004868	F-PLACE1004868	4470	R-PLACE1004868	9446
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35	PLACE1007367	F-PLACE1007367	4690	R-PLACE1007367	9660
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55	PLACE1007537	F-PLACE1007537	4707		

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5	PLACE1011643	F-PLACE1011643	5033	R-PLACE1011643	9990
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15	PLACE1011725	F-PLACE1011725	5041	R-PLACE1011725	9997
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	PLACE2000021	F-PLACE2000021	5066	R-PLACE2000021	10020
45	PLACE2000030	F-PLACE2000030	5067		
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	PLACE2000039	F-PLACE2000039	5070	R-PLACE2000039	10023
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10	PLACE2000136	F-PLACE2000136	5083	R-PLACE2000136	10035
	PLACE2000140	F-PLACE2000140	5084	R-PLACE2000140	10036
	PLACE2000164	F-PLACE2000164	5085	R-PLACE2000164	10037
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	PLACE2000216	F-PLACE2000216	5090	R-PLACE2000216	10042
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	PLACE2000274	F-PLACE2000274	5095	R-PLACE2000274	10047
25	PLACE2000302	F-PLACE2000302	5096	R-PLACE2000302	10048
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5	PLACE3000009	F-PLACE3000009	5125		
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	PLACE3000121	F-PLACE3000121	5132		
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	PLACE3000221	F-PLACE3000221	5152		
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40	PLACE3000230	F-PLACE3000230	5154	R-PLACE3000230	10100
	PLACE3000242	F-PLACE3000242	5155	R-PLACE3000242	10101
	PLACE3000244	F-PLACE3000244	5156	R-PLACE3000244	10102
	PLACE3000254	F-PLACE3000254	5157	R-PLACE3000254	10103
45	PLACE3000271	F-PLACE3000271	5158	R-PLACE3000271	10104
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	PLACE3000304	F-PLACE3000304	5160	R-PLACE3000304	10106
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20	PLACE3000425	F-PLACE3000425	5183	R-PLACE3000425	10129
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	PLACE4000131	F-PLACE4000131	5199		
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	PLACE4000156	F-PLACE4000156	5201	R-PLACE4000156	10146
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50	PLACE4000252	F-PLACE4000252	5209	R-PLACE4000252	10152
	PLACE4000259	F-PLACE4000259	5210		
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55	PLACE4000270	F-PLACE4000270	5213	R-PLACE4000270	10155

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	PLACE4000367	F-PLACE4000367	5219	R-PLACE4000367	10161
	PLACE4000369	F-PLACE4000369	5220	R-PLACE4000369	10162
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50	THYRO1000070	F-THYRO1000070	5255	R-THYRO1000070	10179
	THYRO1000072	F-THYRO1000072	5256	R-THYRO1000072	10180
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	THYRO1000187	F-THYRO1000187	5269	R-THYRO1000187	10193
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	THYRO1000221	F-THYRO1000221	5274	R-THYRO1000221	10198
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	THYRO1000253	F-THYRO1000253	5277	R-THYRO1000253	10201
	THYRO1000270	F-THYRO1000270	5278	R-THYRO1000270	10202
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25	THYRO1000288	F-THYRO1000288	5280	R-THYRO1000288	10204
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	THYRO1000327	F-THYRO1000327	5282	R-THYRO1000327	10206
	THYRO1000343	F-THYRO1000343	5283	R-THYRO1000343	10207
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	THYRO1000368	F-THYRO1000368	5285	R-THYRO1000368	10209
	THYRO1000381	F-THYRO1000381	5286	R-nnnnnnnnnnnnn	10210
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35	THYRO1000394	F-THYRO1000394	5288	R-THYRO1000394	10212
	THYRO1000395	F-THYRO1000395	5289	R-THYRO1000395	10213
	THYRO1000401	F-THYRO1000401	5290	R-THYRO1000401	10214
	THYRO1000438	F-THYRO1000438	5291	R-THYRO1000438	10215
40	THYRO1000452	F-THYRO1000452	5292	R-THYRO1000452	10216
	THYRO1000471	F-THYRO1000471	5293	R-THYRO1000471	10217
	THYRO1000484	F-THYRO1000484	5294	R-THYRO1000484	10218
	THYRO1000488	F-THYRO1000488	5295	R-THYRO1000488	10219
45	THYRO1000501	F-THYRO1000501	5296	R-THYRO1000501	10220
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	THYRO1000505	F-THYRO1000505	5298	R-THYRO1000505	10222
	THYRO1000558	F-THYRO1000558	5299	R-THYRO1000558	10223
	THYRO1000569	F-THYRO1000569	5300	R-THYRO1000569	10224
50	THYRO1000570	F-THYRO1000570	5301	R-THYRO1000570	10225
	THYRO1000585	F-THYRO1000585	5302	R-nnnnnnnnnnnnn	10226
	THYRO1000596	F-THYRO1000596	5303	R-THYRO1000596	10227
	THYRO1000602	F-THYRO1000602	5304	R-THYRO1000602	10228
55	THYRO1000605	F-THYRO1000605	5305	R-THYRO1000605	10229

	THYRO1000625	F-THYRO1000625	5306	R-THYRO1000625	10230
	THYRO1000637	F-THYRO1000637	5307	R-THYRO1000637	10231
	THYRO1000641	F-THYRO1000641	5308	R-THYRO1000641	10232
5	THYRO1000658	F-THYRO1000658	5309	R-THYRO1000658	10233
	THYRO1000662	F-THYRO1000662	5310	R-THYRO1000662	10234
	THYRO1000666	F-THYRO1000666	5311	R-THYRO1000666	10235
	THYRO1000676	F-THYRO1000676	5312	R-THYRO1000676	10236
10	THYRO1000684	F-THYRO1000684	5313	R-THYRO1000684	10237
	THYRO1000699	F-THYRO1000699	5314	R-THYRO1000699	10238
	THYRO1000712	F-THYRO1000712	5315	R-THYRO1000712	10239
	THYRO1000715	F-THYRO1000715	5316		
15	THYRO1000734	F-THYRO1000734	5317	R-THYRO1000734	10240
	THYRO1000748	F-THYRO1000748	5318	R-THYRO1000748	10241
	THYRO1000756	F-THYRO1000756	5319	R-THYRO1000756	10242
	THYRO1000777	F-THYRO1000777	5320	R-THYRO1000777	10243
20	THYRO1000783	F-THYRO1000783	5321	R-THYRO1000783	10244
	THYRO1000787	F-THYRO1000787	5322	R-THYRO1000787	10245
	THYRO1000793	F-THYRO1000793	5323	R-THYRO1000793	10246
	THYRO1000796	F-THYRO1000796	5324	R-THYRO1000796	10247
25	THYRO1000805	F-THYRO1000805	5325	R-THYRO1000805	10248
	THYRO1000815	F-THYRO1000815	5326	R-THYRO1000815	10249
	THYRO1000829	F-THYRO1000829	5327	R-THYRO1000829	10250
	THYRO1000843	F-THYRO1000843	5328	R-THYRO1000843	10251
	THYRO1000852	F-THYRO1000852	5329	R-THYRO1000852	10252
30	THYRO1000855	F-THYRO1000855	5330	R-THYRO1000855	10253
	THYRO1000865	F-THYRO1000865	5331	R-THYRO1000865	10254
	THYRO1000895	F-THYRO1000895	5332	R-THYRO1000895	10255
	THYRO1000916	F-THYRO1000916	5333	R-THYRO1000916	10256
35	THYRO1000926	F-THYRO1000926	5334	R-THYRO1000926	10257
	THYRO1000934	F-THYRO1000934	5335	R-THYRO1000934	10258
	THYRO1000951	F-THYRO1000951	5336	R-THYRO1000951	10259
	THYRO1000952	F-THYRO1000952	5337	R-THYRO1000952	10260
40	THYRO1000974	F-THYRO1000974	5338	R-THYRO1000974	10261
	THYRO1000975	F-THYRO1000975	5339	R-THYRO1000975	10262
	THYRO1000983	F-THYRO1000983	5340	R-THYRO1000983	10263
	THYRO1000984	F-THYRO1000984	5341	R-THYRO1000984	10264
	THYRO1000988	F-THYRO1000988	5342	R-THYRO1000988	10265
45	THYRO1001003	F-THYRO1001003	5343	R-THYRO1001003	10266
	THYRO1001031	F-THYRO1001031	5344	R-THYRO1001031	10267
	THYRO1001033	F-THYRO1001033	5345	R-THYRO1001033	10268
	THYRO1001062	F-THYRO1001062	5346	R-THYRO1001062	10269
50	THYRO1001093	F-THYRO1001093	5347	R-THYRO1001093	10270
	THYRO1001100	F-THYRO1001100	5348	R-THYRO1001100	10271
	THYRO1001120	F-THYRO1001120	5349	R-THYRO1001120	10272
	THYRO1001121	F-THYRO1001121	5350	R-THYRO1001121	10273
55	THYRO1001133	F-THYRO1001133	5351	R-THYRO1001133	10274



	THYRO1001134	F-THYRO1001134	5353	R-THYRO1001134	10275
	THYRO1001142	F-THYRO1001142	5353	R-THYRO1001142	10276
	THYRO1001173	F-THYRO1001173	5354	R-THYRO1001173	10277
5	THYRO1001177	F-THYRO1001177	5355	R-THYRO1001177	10278
	THYRO1001189	F-THYRO1001189	5356	R-THYRO1001189	10279
	THYRO1001204	F-THYRO1001204	5357	R-THYRO1001204	10280
	THYRO1001213	F-THYRO1001213	5358	R-THYRO1001213	10281
10	THYRO1001262	F-THYRO1001262	5359	R-THYRO1001262	10282
	THYRO1001271	F-THYRO1001271	5360	R-THYRO1001271	10283
	THYRO1001287	F-THYRO1001287	5361		
	THYRO1001290	F-THYRO1001290	5362	R-THYRO1001290	10284
15	THYRO1001313	F-THYRO1001313	5363	R-THYRO1001313	10285
	THYRO1001320	F-THYRO1001320	5364	R-THYRO1001320	10286
	THYRO1001321	F-THYRO1001321	5365	R-THYRO1001321	10287
	THYRO1001322	F-THYRO1001322	5366	R-aaaaaaaaaaaa	10288
20	THYRO1001347	F-THYRO1001347	5367	R-THYRO1001347	10289
	THYRO1001363	F-THYRO1001363	5368	R-THYRO1001363	10290
	THYRO1001365	F-THYRO1001365	5369	R-THYRO1001365	10291
	THYRO1001374	F-THYRO1001374	5370	R-THYRO1001374	10292
25	THYRO1001401	F-THYRO1001401	5371	R-THYRO1001401	10293
	THYRO1001403	F-THYRO1001403	5372	R-THYRO1001403	10294
	THYRO1001405	F-THYRO1001405	5373	R-THYRO1001405	10295
	THYRO1001406	F-THYRO1001406	5374	R-THYRO1001406	10296
	THYRO1001411	F-THYRO1001411	5375	R-THYRO1001411	10297
30	THYRO1001426	F-THYRO1001426	5376	R-THYRO1001426	10298
	THYRO1001434	F-THYRO1001434	5377	R-THYRO1001434	10299
	THYRO1001458	F-THYRO1001458	5378	R-THYRO1001458	10300
	THYRO1001480	F-THYRO1001480	5379	R-THYRO1001480	10301
35	THYRO1001487	F-THYRO1001487	5380	R-THYRO1001487	10302
	THYRO1001534	F-THYRO1001534	5381	R-THYRO1001534	10303
	THYRO1001537	F-THYRO1001537	5382	R-THYRO1001537	10304
	THYRO1001541	F-THYRO1001541	5383	R-THYRO1001541	10305
	THYRO1001559	F-THYRO1001559	5384	R-THYRO1001559	10306
40	THYRO1001570	F-THYRO1001570	5385	R-THYRO1001570	10307
	THYRO1001573	F-THYRO1001573	5386	R-THYRO1001573	10308
	THYRO1001584	F-THYRO1001584	5387	R-THYRO1001584	10309
	THYRO1001595	F-THYRO1001595	5388	R-THYRO1001595	10310
45	THYRO1001602	F-THYRO1001602	5389	R-THYRO1001602	10311
	THYRO1001605	F-THYRO1001605	5390	R-THYRO1001605	10312
	THYRO1001617	F-THYRO1001617	5391	R-THYRO1001617	10313
	THYRO1001637	F-THYRO1001637	5392	R-THYRO1001637	10314
50	THYRO1001656	F-THYRO1001656	5393	R-THYRO1001656	10315
	THYRO1001661	F-THYRO1001661	5394	R-THYRO1001661	10316
	THYRO1001671	F-THYRO1001671	5395	R-THYRO1001671	10317
	THYRO1001673	F-THYRO1001673	5396	R-THYRO1001673	10318
55	THYRO1001703	F-THYRO1001703	5397	R-THYRO1001703	10319

	THYRO1001706	F-THYRO1001706	5398	R-THYRO1001706	10320
	THYRO1001721	F-THYRO1001721	5399	R-THYRO1001721	10321
	THYRO1001738	F-THYRO1001738	5400	R-nnnnnnnnnnnnn	10322
5	THYRO1001745	F-THYRO1001745	5401	R-THYRO1001745	10323
	THYRO1001746	F-THYRO1001746	5402	R-THYRO1001746	10324
	THYRO1001772	F-THYRO1001772	5403	R-THYRO1001772	10325
	THYRO1001793	F-THYRO1001793	5404	R-THYRO1001793	10326
10	THYRO1001809	F-THYRO1001809	5405	R-THYRO1001809	10327
	THYRO1001828	F-THYRO1001828	5406		
	THYRO1001854	F-THYRO1001854	5407	R-THYRO1001854	10328
	THYRO1001895	F-THYRO1001895	5408	R-THYRO1001895	10329
	THYRO1001907	F-THYRO1001907	5409	R-THYRO1001907	10330
15	VESEN1000122	F-VESEN1000122	5410	R-VESEN1000122	10331
	Y79AA1000013	F-Y79AA1000013	5411	R-Y79AA1000013	10332
	Y79AA1000033	F-Y79AA1000033	5412	R-Y79AA1000033	10333
	Y79AA1000037	F-Y79AA1000037	5413	R-Y79AA1000037	10334
20	Y79AA1000059	F-Y79AA1000059	5414	R-Y79AA1000059	10335
	Y79AA1000065	F-Y79AA1000065	5415	R-Y79AA1000065	10336
	Y79AA1000131	F-Y79AA1000131	5416	R-Y79AA1000131	10337
	Y79AA1000181	F-Y79AA1000181	5417	R-Y79AA1000181	10338
25	Y79AA1000202	F-Y79AA1000202	5418	R-Y79AA1000202	10339
	Y79AA1000214	F-Y79AA1000214	5419	R-Y79AA1000214	10340
	Y79AA1000230	F-Y79AA1000230	5420	R-Y79AA1000230	10341
	Y79AA1000231	F-Y79AA1000231	5421	R-Y79AA1000231	10342
30	Y79AA1000258	F-Y79AA1000258	5422	R-Y79AA1000258	10343
	Y79AA1000268	F-Y79AA1000268	5423	R-Y79AA1000268	10344
	Y79AA1000313	F-Y79AA1000313	5424	R-Y79AA1000313	10345
	Y79AA1000328	F-Y79AA1000328	5425	R-Y79AA1000328	10346
35	Y79AA1000342	F-Y79AA1000342	5426	R-Y79AA1000342	10347
	Y79AA1000346	F-Y79AA1000346	5427	R-Y79AA1000346	10348
	Y79AA1000349	F-Y79AA1000349	5428	R-Y79AA1000349	10349
	Y79AA1000355	F-Y79AA1000355	5429	R-Y79AA1000355	10350
	Y79AA1000368	F-Y79AA1000368	5430	R-Y79AA1000368	10351
40	Y79AA1000405	F-Y79AA1000405	5431	R-Y79AA1000405	10352
	Y79AA1000410	F-Y79AA1000410	5432	R-Y79AA1000410	10353
	Y79AA1000420	F-Y79AA1000420	5433	R-Y79AA1000420	10354
	Y79AA1000469	F-Y79AA1000469	5434	R-Y79AA1000469	10355
45	Y79AA1000480	F-Y79AA1000480	5435	R-Y79AA1000480	10356
	Y79AA1000538	F-Y79AA1000538	5436	R-Y79AA1000538	10357
	Y79AA1000539	F-Y79AA1000539	5437	R-Y79AA1000539	10358
	Y79AA1000540	F-Y79AA1000540	5438	R-Y79AA1000540	10359
50	Y79AA1000560	F-Y79AA1000560	5439	R-Y79AA1000560	10360
	Y79AA1000574	F-Y79AA1000574	5440	R-Y79AA1000574	10361
	Y79AA1000589	F-Y79AA1000589	5441		
	Y79AA1000627	F-Y79AA1000627	5442	R-Y79AA1000627	10362
55	Y79AA1000705	F-Y79AA1000705	5443	R-Y79AA1000705	10363

	Y79AA1000734	F-Y79AA1000734	5444	R-Y79AA1000734	10364
	Y79AA1000748	F-Y79AA1000748	5445	R-Y79AA1000748	10365
	Y79AA1000752	F-Y79AA1000752	5446	R-Y79AA1000752	10366
5	Y79AA1000774	F-Y79AA1000774	5447	R-Y79AA1000774	10367
	Y79AA1000782	F-Y79AA1000782	5448	R-Y79AA1000782	10368
	Y79AA1000784	F-Y79AA1000784	5449	R-Y79AA1000784	10369
	Y79AA1000794	F-Y79AA1000794	5450	R-Y79AA1000794	10370
10	Y79AA1000800	F-Y79AA1000800	5451	R-Y79AA1000800	10371
	Y79AA1000802	F-Y79AA1000802	5452	R-nnnnnnnnnnnnn	10372
	Y79AA1000805	F-Y79AA1000805	5453	R-Y79AA1000805	10373
	Y79AA1000824	F-Y79AA1000824	5454	R-Y79AA1000824	10374
15	Y79AA1000827	F-Y79AA1000827	5455	R-Y79AA1000827	10375
	Y79AA1000833	F-Y79AA1000833	5456		
	Y79AA1000850	F-Y79AA1000850	5457	R-Y79AA1000850	10376
	Y79AA1000962	F-Y79AA1000962	5458	R-Y79AA1000962	10377
20	Y79AA1000966	F-Y79AA1000966	5459		
	Y79AA1000968	F-Y79AA1000968	5460	R-Y79AA1000968	10378
	Y79AA1000969	F-Y79AA1000969	5461	R-Y79AA1000969	10379
	Y79AA1000976	F-Y79AA1000976	5462	R-Y79AA1000976	10380
25	Y79AA1000985	F-Y79AA1000985	5463	R-Y79AA1000985	10381
	Y79AA1001023	F-Y79AA1001023	5464	R-Y79AA1001023	10382
	Y79AA1001041	F-Y79AA1001041	5465	R-Y79AA1001041	10383
	Y79AA1001048	F-Y79AA1001048	5466	R-Y79AA1001048	10384
30	Y79AA1001061	F-Y79AA1001061	5467	R-Y79AA1001061	10385
	Y79AA1001068	F-Y79AA1001068	5468	R-Y79AA1001068	10386
	Y79AA1001077	F-Y79AA1001077	5469	R-Y79AA1001077	10387
	Y79AA1001078	F-Y79AA1001078	5470	R-Y79AA1001078	10388
35	Y79AA1001105	F-Y79AA1001105	5471	R-Y79AA1001105	10389
	Y79AA1001145	F-Y79AA1001145	5472	R-Y79AA1001145	10390
	Y79AA1001167	F-Y79AA1001167	5473	R-Y79AA1001167	10391
	Y79AA1001177	F-Y79AA1001177	5474	R-Y79AA1001177	10392
40	Y79AA1001185	F-Y79AA1001185	5475	R-Y79AA1001185	10393
	Y79AA1001211	F-Y79AA1001211	5476	R-Y79AA1001211	10394
	Y79AA1001216	F-Y79AA1001216	5477	R-Y79AA1001216	10395
	Y79AA1001228	F-Y79AA1001228	5478	R-Y79AA1001228	10396
	Y79AA1001233	F-Y79AA1001233	5479	R-Y79AA1001233	10397
45	Y79AA1001236	F-Y79AA1001236	5480	R-Y79AA1001236	10398
	Y79AA1001281	F-Y79AA1001281	5481	R-Y79AA1001281	10399
	Y79AA1001299	F-Y79AA1001299	5482	R-Y79AA1001299	10400
	Y79AA1001312	F-Y79AA1001312	5483	R-Y79AA1001312	10401
50	Y79AA1001323	F-Y79AA1001323	5484	R-Y79AA1001323	10402
	Y79AA1001384	F-Y79AA1001384	5485	R-Y79AA1001384	10403
	Y79AA1001391	F-Y79AA1001391	5486	R-Y79AA1001391	10404
	Y79AA1001394	F-Y79AA1001394	5487	R-Y79AA1001394	10405
	Y79AA1001402	F-Y79AA1001402	5488	R-Y79AA1001402	10406
55	Y79AA1001493	F-Y79AA1001493	5489	R-Y79AA1001493	10407

	Y79AA1001511	F-Y79AA1001511	5490	R-Y79AA1001511	10408
	Y79AA1001533	F-Y79AA1001533	5491	R-Y79AA1001533	10409
	Y79AA1001541	F-Y79AA1001541	5492	R-nnnnnnnnnnnnn	10410
5	Y79AA1001548	F-Y79AA1001548	5493	R-Y79AA1001548	10411
	Y79AA1001555	F-Y79AA1001555	5494	R-Y79AA1001555	10412
	Y79AA1001581	F-Y79AA1001581	5495		
	Y79AA1001585	F-Y79AA1001585	5496	R-Y79AA1001585	10413
10	Y79AA1001594	F-Y79AA1001594	5497	R-Y79AA1001594	10414
	Y79AA1001603	F-Y79AA1001603	5498	R-Y79AA1001603	10415
	Y79AA1001613	F-Y79AA1001613	5499	R-Y79AA1001613	10416
	Y79AA1001647	F-Y79AA1001647	5500	R-Y79AA1001647	10417
15	Y79AA1001665	F-Y79AA1001665	5501	R-Y79AA1001665	10418
	Y79AA1001679	F-Y79AA1001679	5502	R-Y79AA1001679	10419
	Y79AA1001692	F-Y79AA1001692	5503	R-nnnnnnnnnnnnn	10420
	Y79AA1001696	F-Y79AA1001696	5504	R-Y79AA1001696	10421
20	Y79AA1001705	F-Y79AA1001705	5505	R-Y79AA1001705	10422
	Y79AA1001711	F-Y79AA1001711	5506	R-Y79AA1001711	10423
	Y79AA1001781	F-Y79AA1001781	5507	R-Y79AA1001781	10424
	Y79AA1001805	F-Y79AA1001805	5508	R-nnnnnnnnnnnnn	10425
25	Y79AA1001827	F-Y79AA1001827	5509	R-Y79AA1001827	10426
	Y79AA1001846	F-Y79AA1001846	5510	R-Y79AA1001846	10427
	Y79AA1001848	F-Y79AA1001848	5511	R-Y79AA1001848	10428
	Y79AA1001866	F-Y79AA1001866	5512	R-Y79AA1001866	10429
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	Y79AA1001875	F-Y79AA1001875	5514	R-Y79AA1001875	10431
	Y79AA1001923	F-Y79AA1001923	5515	R-Y79AA1001923	10432
	Y79AA1001963	F-Y79AA1001963	5516		
35	Y79AA1002027	F-Y79AA1002027	5517	R-Y79AA1002027	10433
	Y79AA1002083	F-Y79AA1002083	5518	R-Y79AA1002083	10434
	Y79AA1002089	F-Y79AA1002089	5519	R-Y79AA1002089	10435
	Y79AA1002093	F-Y79AA1002093	5520	R-Y79AA1002093	10436
	Y79AA1002103	F-Y79AA1002103	5521	R-Y79AA1002103	10437
40	Y79AA1002115	F-Y79AA1002115	5522	R-Y79AA1002115	10438
	Y79AA1002125	F-Y79AA1002125	5523	R-Y79AA1002125	10439
	Y79AA1002139	F-Y79AA1002139	5524	R-Y79AA1002139	10440
	Y79AA1002204	F-Y79AA1002204	5525	R-Y79AA1002204	10441
45	Y79AA1002208	F-Y79AA1002208	5526	R-nnnnnnnnnnnnn	10442
	Y79AA1002209	F-Y79AA1002209	5527	R-Y79AA1002209	10443
	Y79AA1002210	F-Y79AA1002210	5528	R-Y79AA1002210	10444
	Y79AA1002211	F-Y79AA1002211	5529	R-Y79AA1002211	10445
50	Y79AA1002220	F-Y79AA1002220	5530	R-Y79AA1002220	10446
	Y79AA1002229	F-Y79AA1002229	5531	R-Y79AA1002229	10447
	Y79AA1002234	F-Y79AA1002234	5532	R-Y79AA1002234	10448
	Y79AA1002246	F-Y79AA1002246	5533	R-Y79AA1002246	10449
55	Y79AA1002258	F-Y79AA1002258	5534	R-Y79AA1002258	10450
	Y79AA1002298	F-Y79AA1002298	5535	R-Y79AA1002298	10451

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	Y79AA1002307	F-Y79AA1002307	5536	R-Y79AA1002307	10452
	Y79AA1002311	F-Y79AA1002311	5537	R-Y79AA1002311	10453
5	Y79AA1002351	F-Y79AA1002351	5538	R-Y79AA1002351	10454
	Y79AA1002361	F-Y79AA1002361	5539	R-Y79AA1002361	10455
	Y79AA1002399	F-Y79AA1002399	5540	R-Y79AA1002399	10456
	Y79AA1002407	F-Y79AA1002407	5541	R-Y79AA1002407	10457
10	Y79AA1002416	F-Y79AA1002416	5542	R-Y79AA1002416	10458
	Y79AA1002431	F-Y79AA1002431	5543	R-Y79AA1002431	10459
	Y79AA1002433	F-Y79AA1002433	5544	R-nnnnnnnnnnnnn	10460
	Y79AA1002472	F-Y79AA1002472	5545	R-Y79AA1002472	10461
15	Y79AA1002482	F-Y79AA1002482	5546	R-Y79AA1002482	10462
	Y79AA1002487	F-Y79AA1002487	5547	R-Y79AA1002487	10463

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Table 2

name of clone	name of 5'-end sequence	SEQ ID of 5'-end sequence	name of 3'-end sequence	SEQ ID of 3'-end sequence
HEMBA1000497	F-HEMBA1000497	16111	R-HEMBA1000497	16165
HEMBA1001750	F-HEMBA1001750	16112	R-HEMBA1001750	16166
HEMBA1003854	F-HEMBA1003854	16113	R-HEMBA1003854	16167
HEMBA1004193	F-HEMBA1004193	16114	R-HEMBA1004193	16168
HEMBA1004860	F-HEMBA1004860	16115	R-HEMBA1004860	16169
HEMBA1005572	F-HEMBA1005572	16116	R-HEMBA1005572	16170
HEMBA1006038	F-HEMBA1006038	16117	R-HEMBA1006038	16171
HEMBA1006092	F-HEMBA1006092	16118	R-HEMBA1006092	16172
HEMBA1006406	F-HEMBA1006406	16119	R-HEMBA1006406	16173
HEMBA1006650	F-HEMBA1006650	16120	R-HEMBA1006650	16174
HEMBA1006812	F-HEMBA1006812	16121	R-HEMBA1006812	16175
HEMBA100672	F-HEMBA100672	16122	R-HEMBA100672	16176
HEMBA1001197	F-HEMBA1001197	16123	R-HEMBA1001197	16177
HEMBA1001871	F-HEMBA1001871	16124	R-HEMBA1001871	16178
MAMMA1001252	F-MAMMA1001252	16125	R-MAMMA1001252	16179
MAMMA1002094	F-MAMMA1002094	16126	R-MAMMA1002094	16180
NT2RM4000634	F-NT2RM4000634	16127	R-NT2RM4000634	16181
NT2RM4000657	F-NT2RM4000657	16128	R-NT2RM4000657	16182
NT2RM4000783	F-NT2RM4000783	16129	R-NT2RM4000783	16183
NT2RM4000857	F-NT2RM4000857	16130	R-NT2RM4000857	16184
NT2RM4001178	F-NT2RM4001178	16131	R-NT2RM4001178	16185
NT2RM4002420	F-NT2RM4002420	16132	R-NT2RM4002420	16186
NT2RP2000198	F-NT2RP2000198	16133	R-NT2RP2000198	16187
NT2RP2000551	F-NT2RP2000551	16134	R-NT2RP2000551	16188
NT2RP2000660	F-NT2RP2000660	16135	R-NT2RP2000660	16189

	NT2RP2001214	F-NT2RP2001214	16136	R-NT2RP2001214	16190
	NT2RP2001460	F-NT2RP2001460	16137	R-NT2RP2001460	16191
5	NT2RP2001756	F-NT2RP2001756	16138	R-NT2RP2001756	16192
	NT2RP2002056	F-NT2RP2002056	16139	R-NT2RP2002056	16193
	NT2RP2002677	F-NT2RP2002677	16140	R-NT2RP2002677	16194
	NT2RP2002755	F-NT2RP2002755	16141	R-NT2RP2002755	16195
10	NT2RP2002843	F-NT2RP2002843	16142	R-NT2RP2002843	16196
	NT2RP2003101	F-NT2RP2003101	16143	R-NT2RP2003101	16197
	NT2RP2003799	F-NT2RP2003799	16144	R-NT2RP2003799	16198
	NT2RP2004095	F-NT2RP2004095	16145	R-NT2RP2004095	16199
15	NT2RP2004732	F-NT2RP2004732	16146	R-NT2RP2004732	16200
	NT2RP2004920	F-NT2RP2004920	16147	R-NT2RP2004920	16201
	NT2RP2005454	F-NT2RP2005454	16148	R-NT2RP2005454	16202
	NT2RP2005776	F-NT2RP2005776	16149	R-NT2RP2005776	16203
20	NT2RP2005806	F-NT2RP2005806	16150	R-NT2RP2005806	16204
	NT2RP2005882	F-NT2RP2005882	16151	R-NT2RP2005882	16205
	NT2RP3001282	F-NT2RP3001282	16152	R-NT2RP3001282	16206
25	NT2RP3001723	F-NT2RP3001723	16153	R-NT2RP3001723	16207
	NT2RP3002099	F-NT2RP3002099	16154	R-NT2RP3002099	16208
	NT2RP3003155	F-NT2RP3003155	16155	R-NT2RP3003155	16209
	NT2RP3004028	F-NT2RP3004028	16156	R-NT2RP3004028	16210
30	OVARC1000008	F-OVARC1000008	16157	R-OVARC1000008	16211
	OVARC1000724	F-OVARC1000724	16158	R-OVARC1000724	16212
	OVARC1000751	F-OVARC1000751	16159	R-OVARC1000751	16213
	OVARC1001029	F-OVARC1001029	16160	R-OVARC1001029	16214
35	PLACE1000814	F-PLACE1000814	16161	R-PLACE1000814	16215
	PLACE1003030	F-PLACE1003030	16162	R-PLACE1003030	16216
	PLACE1005549	F-PLACE1005549	16163	R-PLACE1005549	16217
40	PLACE1007218	F-PLACE1007218	16164	R-PLACE1007218	16218

[0019] Furthermore, the present invention relates to the use of the above primers, as described below.

(4) A polynucleotide which can be synthesized with the primer set of (2) or (3).

(5) A polynucleotide comprising a coding region in the polynucleotide of (4).

(6) A substantially pure protein encoded by polynucleotide of (4).

(7) A partial peptide of the protein of (6).

[0020] In addition, the present invention comprises a polynucleotide described below and a protein encoded by the polynucleotide.

(B) An isolated polynucleotide selected from the group consisting of

(a) a polynucleotide comprising a coding region of the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;

(b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;

(c) a polynucleotide comprising a nucleotide sequence encoding a protein comprising an amino acid sequence

selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, in which one or more amino acids are substituted, deleted, inserted, and/or added, wherein said protein is functionally equivalent to the protein comprising said amino acid sequence selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351;

(d) a polynucleotide that hybridizes with a polynucleotide comprising a nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351, and that comprises a nucleotide sequence encoding a protein functionally equivalent to the protein encoded by the nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351;

(e) a polynucleotide comprising a nucleotide sequence encoding a partial amino acid sequence of a protein encoded by the polynucleotide of (a) to (d);

(f) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351.

(9) A substantially pure protein encoded by the polynucleotide of (8).

(10) An antibody against the protein or peptide of any one of (6), (7), and (9).

(11) A vector comprising the polynucleotide of (5) or (8).

(12) A transformant carrying the polynucleotide of (5) or (8), or the vector of (11).

(13) A transformant expressively carrying the polynucleotide of (5) or (8), or the vector of (11).

(14) A method for producing the protein or peptide of any one of (6), (7), and (9), comprising culturing the transformant of (13) and recovering the expression product.

(15) An oligonucleotide comprising the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351 or the nucleotide sequence complementary to the complementary strand thereof, wherein said oligonucleotide comprises 15 nucleotides or more.

(16) Use of the oligonucleotide of (15) as a primer for synthesizing a polynucleotide.

(17) Use of the oligonucleotide of (15) as a probe for detecting a gene.

(18) An antigenic polynucleotide against the polynucleotide of (8), or the portion thereof.

(19) A method for synthesizing a polynucleotide, the method comprising:

- a) synthesizing a complementary strand using a cDNA library as a template, and using the primer set of (2) or (3), or the primer of (16); and
- b) recovering the synthesized product.

(20) The method of (19), wherein the cDNA library is obtainable by oligo-capping method.

(21) The method of (19), wherein the complementary strand is obtainable by PCR.

(22) A method for detecting the polynucleotide of (8), the method comprising:

- a) incubating a target polynucleotide with the oligonucleotide of (15) under the conditions where hybridization occurs, and
- b) detecting the hybridization of the target polynucleotide with the oligonucleotide of (15).

(23) A database of polynucleotides and/or proteins, the database comprising information on at least one sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351 and/or the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, or a medium on which the database is stored.

**[0021]** Any patents, patent applications, and publications cited herein are incorporated by reference.

#### BRIEF DESCRIPTION OF THE DRAWINGS

**[0022]** Figure 1 shows the restriction maps of vectors pME18SFL3 and pUC19FL3.

**[0023]** Figure 2 shows the reproducibility of gene expression analysis. The respective intensities of gene expression observed in independent set of experiments are plotted in the vertical axis as well as in the horizontal axis.

**[0024]** Figure 3 shows the detection limit in gene expression analysis. The intensity of expression is shown in the vertical axis and the concentration ( $\mu\text{g/ml}$ ) of probe used is shown in the horizontal axis.

#### DETAILED DESCRIPTION OF THE INVENTION

**[0025]** Herein, "polynucleotide" is defined as a molecule in which multiple nucleotides are polymerized. There are no limitations in the number of the polymerized nucleotides. In case that the polymer contains relatively low number



of nucleotides, it is also described as an "oligonucleotide". The polynucleotide or the oligonucleotide of the present invention can be a natural or chemically synthesized product. Alternatively, it can be synthesized using a template DNA by an enzymatic reaction such as PCR.

**[0026]** All the cDNA prepared by the invention are full-length cDNA. Herein, a "full-length cDNA" is defined as a cDNA which contains both ATG codon (the translation start site) and the stop codon. Accordingly, the untranslated regions, which are originally found in the upstream or downstream of the protein coding region in natural mRNA, may or may not be contained.

**[0027]** An "isolated polynucleotide" is a polynucleotide the structure of which is not identical to that of any naturally occurring nucleic acid or to that of any fragment of a naturally occurring genomic nucleic acid spanning more than three separate genes. The term therefore covers, for example,

(a) a DNA which has the sequence of part of a naturally occurring genomic DNA molecule but is not flanked by both of the coding sequences that flank that part of the molecule in the genome of the organism in which it naturally occurs;

(b) a nucleic acid incorporated into a vector or into the genomic DNA of a prokaryote or eukaryote in a manner such that the resulting molecule is not identical to any naturally occurring vector or genomic DNA;

(c) a separate molecule such as a cDNA, a genomic fragment, a fragment produced by polymerase chain reaction (PCR), or a restriction fragment; and

(d) a recombinant nucleotide sequence that is part of a hybrid gene, i.e., a gene encoding a fusion protein. Specifically excluded from this definition are nucleic acids present in mixtures of different (i) DNA molecules, (ii) transfected cells, or (iii) cell clones: e.g., as these occur in a DNA library such as a cDNA or genomic DNA library.

**[0028]** The term "substantially pure" as used herein in reference to a given polypeptide means that the protein or polypeptide is substantially free from other biological macromolecules. The substantially pure protein or polypeptide is at least 75% (e.g., at least 80, 85, 95, or 99%) pure by dry weight. Purity can be measured by any appropriate standard method, for example, by column chromatography, polyacrylamide gel electrophoresis, or HPLC analysis.

**[0029]** All the clones (5602 clones) of the present invention are novel and encode the full-length proteins. All the clones were prepared by oligo capping method, which can achieve cDNA cloning with high fullness ratio. The cDNA clones were selected by using ATGprf score as an index of the fullness ratio at the 5'-end, based on the sequence features of the 5'-end sequences. Selection was further carried out by searching GenBank database for EST sequences homologous to 5'-end sequence of each clone by BLAST [S.F. Altschul, W. Gish, W. Miller, E.W. Myers & D.L. Lipman J. Mol. Biol., 215:403-410 (1990); W. Gish, & D.J. States, Nature Genet., 3:266-272 (1993)] and by considering the number of matching (identical) EST sequences or the number of continuous amino acids in the 5'-end sequence initiated from the initiation codon.

**[0030]** Moreover, the clones were turned out to be not identical to any of the known human mRNA (namely novel) by homology search using the 5'-end sequence.

**[0031]** The primers of the present invention, which are used for synthesizing full-length cDNA, are selected from the group comprising SEQ ID NO: 1-5547 (5'-primer), or SEQ ID NO: 5548-10463 (3'-primer). Further, the primers of the present invention, which are used for synthesizing full-length cDNA, are selected from SEQ ID NO: 16111-16164 (5'-primer), or SEQ ID NO: 16165-16218 (3'-primer). Some of the nucleotides include a known EST as its part. However, the primers of the present invention are novel in terms that the primers enable to synthesize full-length cDNA. Because the known ESTs lack important information on what part of cDNA the ESTs correspond to, it is impossible to design primers on the basis of the ESTs.

**[0032]** All the full-length cDNA of the present invention can be synthesized using a primer set comprising the nucleotide sequences selected from both the 5'-end and 3'-end sequences, or a set comprising a primer based on the 5'-end sequence and an oligo-dT primer, by a method such as PCR (Current protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 6.1-6.4).

**[0033]** Specifically, PCR can be performed using an oligonucleotide that has 15 nucleotides longer, and specifically hybridizes with the complementary strand of the polynucleotide that contains the nucleotide sequence selected from the 5'-end sequences shown in Table 1 and 2 (SEQ ID NO: 1-5547, or SEQ ID NO: 16111-16164), and an oligo-dT primer as a 5'-, and 3'-primer, respectively. The length of the primers is usually 15-100 bp, and favorably between 15-35 bp. In case of LA PCR, which is described below, the primer length of 25-35 bp may provide a good result.

**[0034]** A method to design a primer that enables a specific amplification based on the given nucleotide sequence is known to those skilled in the art (Current Protocols in Molecular Biology, Ausubel et al. edit, (1987) John Wiley & Sons, Section 6.1-6.4). In designing a primer based on the 5'-end sequence, the primer is designed so as that, in principle, the amplification products will include the translation start site. Accordingly, in case that a given 5'-end nucleotide sequence is the 5'- untranslated region (5'UTR), any part of the sequence can be used as a 5'-primer as far as the specificity toward the target cDNA is insured. The translation start site can be predicted using a known method such

as the ATGpr as described below.

**[0035]** When synthesizing a polynucleotide, the target nucleotide sequence to be amplified can extend to several thousand bp in some cDNA. However, it is possible to amplify such a long nucleotides by using such as LA PCR (Long and Accurate PCR). It is advantageous to use LA PCR when synthesizing long DNA. In LA PCR, in which a special DNA polymerase having 3' → 5' exonuclease activity is used, misincorporated nucleotides can be removed. Accordingly, accurate synthesis of the complementary strand can be achieved even with a long nucleotide sequence. By using LA PCR, it is reported that amplification of a nucleotide with 20 kb longer can be achieved under desirable condition (Takeshi Hayashi (1996) Jikken-Igaku Bessatsu, "Advanced Technologies in PCR" Youdo-sha).

**[0036]** A template DNA for synthesizing the cDNA of the present invention can be obtained by using cDNA libraries that are prepared by various methods. The full-length cDNA clones obtained here are those with high fullness ratio, which were obtained using a combination of (1) a method to prepare a full-length-enriched cDNA library using the oligo-capping method, and (2) an estimation system for fullness using the 5'-end sequence (selection based on the estimation by the ATGpr after removing clones that are not full-length compared to the ESTs). However, it is possible to easily obtain a full-length cDNA by using the primers that are provided by the present invention, not by the above described specialized method.

The problem with the cDNA libraries prepared by the known methods or commercially available is that mRNA contained in the libraries has very low fullness ratio. Thus, it is difficult to screen full-length cDNA clone directly from the library using ordinary cloning methods. The present invention has revealed a primer that is capable of synthesizing a full-length cDNA. If provided with primers, it is possible to synthesize a target full-length cDNA by using enzymatic reactions such as PCR. In particular, a full-length-enriched cDNA library, synthesized by methods such as oligo-capping, is desirable to synthesize a full-length cDNA with more reliability.

**[0037]** The 5'-end sequence of the full-length cDNA clones of the invention can be used to isolate the regulatory element of transcription including the promoter on the genome. By the spring of the year 2000, a rough draft of the human genome (analysis of human genomic sequence with lower accuracy), which covers 90% of the genome, is planned to be accomplished, and by the year 2003, analysis of the entire human genomic sequence is going to be finished. However, it is hard to analyze with software the transcription start sites on the human genome, in which long introns exist. By contrast, it is easy to specify the transcription start site on the genomic sequence using the 5'-end sequence of the full-length cDNA clone, thus it is easy to obtain the genomic region involved in transcription regulation, which includes the promoter that is contained in the upstream of the transcription start site.

**[0038]** The full-length cDNAs cloned in the present invention are classified into 13 groups, based on the data such as ATGpr1 score, by which the fullness ratio can be evaluated. Specifically, the 13 groups consist of; the below-mentioned groups (1)-(3), containing 3690 clones (Table 9), and the group (12), containing 3 clones, wherein ATGpr1 (score defined in the ATGpr program) is higher than 0.3; and the below-mentioned groups (4)-(11), containing 1857 clones (Table 10), and the group (13), containing 52 clones, wherein, although ATGpr1 is 0.3 or less, the clones are judged to be full-length from various viewpoints. Names of the clones belonging to the groups (1)-(13) are as indicated in Examples or below.

#### (1) 1516 clones

Among the 3690 clones that have the maximal ATGpr1 score higher than 0.3, 1516 clones are novel full-length clones, in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

#### (2) 377 clones

Among the 3690, 377 clones are novel full-length clones, in which the number of human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

#### (3) 1797 clones

Among the 3690, 1797 clones are novel full-length clones, in which the number of human EST having identical sequence at the 5'-end is not more than 20 (except the clones described above).

#### (4) 453 clones

Among the 1857 clones in which the maximal ATGpr1 score is 0.3 or less, the following 453 clones are estimated to be novel full-length clones since the clones have the maximal score 0.3 or more in the ATGpr2, and at least either of the sequences of their 5'- and 3'-ends, or both are not identical to those of any human EST. The ATGpr2 score is determined by using the ATGpr program with neglecting the information of the frequency of the six nucleotides contained within the sequence between the ATG codon and the stop codon (the maximal length is 300 nucleotides from the ATG codon) (Salamo A.A., Nishikawa T., and Swindells M.B. (1998) Bioinformatics, 14: 384-390; <http://www.hri.co.jp/atgpr/>). The ATGpr program for calculating the ATGpr2 score is described as the

ATGpr2 program in the followings.

(5) 24 clones

Among the 1857 clones, 24 clones are estimated to be full-length since their maximal ATGpr2 scores are higher than 0.3, and also novel, though they have low scores in ATGpr1 program, in which the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(6) 65 clones

Among the 1857 clones, 65 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(7) 32 clones

Among the 1857 clones, 32 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(8) 36 clones

Among the 1857 clones, 36 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(9) 81 clones

Among the 1857 clones, 81 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if the number of the human EST having identical sequence at the 5'-end is not more than 20 (other than the clones in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST).

(10) 938 clones

Among the 1857 clones, 938 clones are estimated to be full-length according to the fullness ratio shown in Table 4, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 5'-end is not identical to those of any human EST.

(11) 228 clones

Among the 1857 clones, 228 clones are estimated to be full-length according to the fullness ratio shown in Table 7, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 3'-end is not identical to those of any human EST.

(12) 3 clones

Three clones, HEMBA1006812, HEMBB1001871, and NT2RP3001282, whose maximal ATGpr1 values are higher than 0.3, are full-length and novel clones whose 5'-end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 100 amino acids or more.

(13) 52 clones

The following 52 clones, which have maximal ATGpr1 values of 0.3 or less, are full-length with the fullness ratios shown in Table 4 although the fullness ratios are low:

HEMBA1000497,	HEMBA1001750,	HEMBA1003854,	HEMBA1004193,	HEMBA1004860,	HEMBA1005572,
HEMBA1006038,	HEMBA1006092,	HEMBA1006406,	HEMBA1006650,	HEMBA1006672,	HEMBA1001197,
MAMMA1001252,	MAMMA1002094,	NT2RM4000634,	NT2RM4000657,	NT2RM4000783,	NT2RM4000857,
NT2RM4001178,	NT2RM4002420,	NT2RP2000198,	NT2RP2000551,	NT2RP2000660,	NT2RP2001214,
NT2RP2001460,	NT2RP2001756,	NT2RP2002056,	NT2RP2002677,	NT2RP2002755,	NT2RP2002843,
NT2RP2003101,	NT2RP2003799,	NT2RP2004095,	NT2RP2004732,	NT2RP2004920,	NT2RP2005454,
NT2RP2005776,	NT2RP2005806,	NT2RP2005882,	NT2RP3001723,	NT2RP3002099,	NT2RP3003155,
NT2RP3004028,	OVARC1000008,	OVARC1000724,	OVARC1000751,	OVARC1001029,	PLACE1000814,

PLACE1003030, PLACE1005549, PLACE1007218, NT2RP4002298.

Moreover, the clones are novel clones whose 5' -end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 50 amino acids or more. Among them, the following 20 clones is predicted to contain a coding region with 100 amino acids or more and should encode proteins:

HEMBA1000497, HEMBA1003854, HEMBA1004193, NT2RM4000657, NT2RM4001178, NT2RP2001756, NT2RP2002677, NT2RP2002755, NT2RP2002843, NT2RP2004095, NT2RP2004920, NT2RP2005806, NT2RP3002099, NT2RP3003155, OVARC1000724, OVARC1001029, PLACE1000814, PLACE1003030, PLACE1005549, PLACE1007218.

**[0039]** The protein encoded by the polynucleotide of the invention can be prepared as a recombinant protein or as a natural protein. For example, the recombinant protein can be prepared by inserting the polynucleotide encoding the protein of the invention into a vector, introducing the vector into an appropriate host cell and purifying the protein expressed within the transformed host cell, as described below. In contrast, the natural protein can be prepared, for example, by utilizing an affinity column to which an antibody against the protein of the invention (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 16.1-16.19) is attached. The antibody used for affinity purification may be either a polyclonal antibody, or a monoclonal antibody. Alternatively, in vitro translation (See, for example, "On the fidelity of mRNA translation in the nuclease-treated rabbit reticulocyte lysate system." Dasso M.C., and Jackson R.J. (1989) Nucleic Acids Res. 17: 3129-3144) may be used for preparing the protein of the invention.

**[0040]** Proteins functionally equivalent to the proteins of the present invention can be prepared based on the activities, which were clarified in the above-mentioned manner, of the proteins of the present invention. Using the biological activity possessed by the protein of the invention as an index, it is possible to verify whether or not a particular protein is functionally equivalent to the protein of the invention by examining whether or not the protein has said activity.

**[0041]** Proteins functionally equivalent to the proteins of the present invention can be prepared by those skilled in the art, for example, by using a method for introducing mutations into an amino acid sequence of a protein (for example, site-directed mutagenesis (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 8.1-8.5). Besides, such proteins can be generated by spontaneous mutations. The present invention comprises the proteins having one or more amino acids substitutions, deletions, insertions and/or additions in the amino acid sequences of the proteins of the present invention (Tables 350 and 351), as far as the proteins have the equivalent functions to those of the proteins identified in the present Examples described later.

**[0042]** There are no limitations in the number and sites of amino acid mutations, as far as the proteins maintain the functions thereof. The number of mutations is typically 30% or less, or 20% or less, or 10% or less, preferably within 5% or less, or 3% or less of the total amino acids, more preferably within 2% or less or 1% or less of the total amino acids. From the viewpoint of maintaining the protein function, it is preferable that a substituted amino has a similar property to that of the original amino acid. For example, Ala, Val, Leu, Ile, Pro, Met, Phe and Trp are assumed to have similar properties to one another because they are all classified into a group of non-polar amino acids. Similarly, substitution can be performed among non-charged amino acid such as Gly, Ser, Thr, Cys, Tyr, Asn, and Gln, acidic amino acids such as Asp and Glu, and basic amino acids such as Lys, Arg, and His.

**[0043]** In addition, proteins functionally equivalent to the proteins of the present invention can be isolated by using techniques of hybridization or gene amplification known to those skilled in the art. Specifically, using the hybridization technique (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4), those skilled in the art can usually isolate a DNA highly homologous to the DNA encoding the protein identified in the present Example based on the identified nucleotide sequence (Tables 350 and 351) or a portion thereof and obtain the functionally equivalent protein from the isolated DNA. The present invention include proteins encoded by the DNAs hybridizing with the DNAs encoding the proteins identified in the present Example, as far as the proteins are functionally equivalent to the proteins identified in the present Example. Organisms from which the functionally equivalent proteins are isolated are illustrated by vertebrates such as human, mouse, rat, rabbit, pig and bovine, but are not limited to these animals.

**[0044]** Washing conditions of hybridization for the isolation of DNAs encoding the functionally equivalent proteins are usually "1 × SSC, 0.1% SDS, 37°C"; more stringent conditions are "0.5 × SSC, 0.1% SDS, 42°C"; and still more stringent conditions are "0.1 × SSC, 0.1% SDS, 65°C". Alternatively, the following conditions can be given as hybridization conditions of the present invention. Namely, conditions in which the hybridization is done at "6 × SSC, 40% Formamide, 25°C", and the washing at "1 × SSC, 55°C" can be given. More preferable conditions are those in which the hybridization is done at "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". Even more preferable are those in which the hybridization is done at "6 × SSC, 50% Formamide, 37°C", and the washing at "0.1 × SSC, 62°C". The more stringent the conditions of hybridization are, the more frequently the DNAs highly homologous to the probe sequence are isolated. Therefore, it is preferable to conduct hybridization under stringent conditions. Examples of stringent conditions in the present invention are, washing conditions of "0.5 × SSC, 0.1% SDS, 42°C", or alternatively, hybridization conditions of "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". However, the above-mentioned combinations of SSC, SDS and temperature conditions are indicated just as examples.

Those skilled in the art can select the hybridization conditions with similar stringency to those mentioned above by properly combining the above-mentioned or other factors (for example, probe concentration, probe length and duration of hybridization reaction) that determines the stringency of hybridization.

**[0045]** The amino acid sequences of proteins isolated by using the hybridization techniques usually exhibit high homology to those of the proteins of the present invention, which are shown in Tables 350 and 351. The present invention encompasses a polynucleotide comprising a nucleotide sequence that has a high identity to the nucleotide sequence of claim 8 (a).

Furthermore, the present invention encompasses a peptide, or protein comprising an amino acid sequence that has a high identity to the amino acid sequence encoded by the polynucleotide of claim 8 (b). The term "high identity" indicates sequence identity of at least 40% or more;

preferably 60% or more; and more preferably 70% or more. Alternatively, more preferable is identity of 90% or more, or 93% or more, or 95% or more, furthermore, 97% or more, or 99% or more. The identity can be determined by using the BLAST search algorithm.

**[0046]** With the gene amplification technique (PCR) (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4)) using primers designed based on the nucleotide sequence (Tables 350 and 351) or a portion thereof identified in the present Example, it is possible to isolate a DNA fragment highly homologous to the polynucleotide sequence or a portion thereof and to obtain functionally equivalent protein to a particular protein identified in the present Example based on the isolated DNA fragment.

**[0047]** The "percent identity" of two amino acid sequences or of two nucleic acids is determined using the algorithm of Karlin and Altschul (Proc. Natl. Acad. Sci. USA 87:2264-2268, 1990), modified as in Karlin and Altschul (Proc. Natl. Acad. Sci. USA 90:5873-5877, 1993). Such an algorithm is incorporated into the BLASTN and BLASTX programs of Altschul et al. (J. Mol. Biol. 215:403-410, 1990). BLAST nucleotide searches are performed with the BLASTN program, score = 100, wordlength = 12. BLAST protein searches are performed with the BLASTX program, score = 50, wordlength = 3. When gaps exist between two sequences, Gapped BLAST is utilized as described in Altschul et al. (Nucleic Acids Res. 25:3389-3402, 1997). When utilizing BLAST and Gapped BLAST programs, the default parameters of the respective programs (e.g., BLASTX and BLASTN) are used. See <http://www.ncbi.nlm.nih.gov>.

**[0048]** The present invention also includes a partial peptide of the proteins of the invention. The partial peptide comprises a protein generated as a result that a signal peptide has been removed from a secretory protein. If the protein of the present invention has an activity as a receptor or a ligand, the partial peptide may function as a competitive inhibitor of the protein and may bind to the receptor (or ligand). In addition, the present invention comprises an antigen peptide for raising antibodies. For the peptides to be specific for the protein of the invention, the peptides comprise at least 7 amino acids, preferably 8 amino acids or more, more preferably 9 amino acids or more, and even more preferably 10 amino acids or more. The peptide can be used for preparing antibodies against the protein of the invention, or competitive inhibitors of them, and also screening for a receptor that binds to the protein of the invention. The partial peptides of the invention can be produced, for example, by genetic engineering methods, known methods for synthesizing peptides, or digesting the protein of the invention with an appropriate peptidase.

**[0049]** The present invention also relates to a vector into which the DNA of the invention is inserted. The vector of the invention is not limited as long as it contains the inserted DNA stably. For example, if *E. coli* is used as a host, vectors such as pBluescript vector (Stratagene) are preferable as a cloning vector. To produce the protein of the invention, expression vectors are especially useful. Any expression vector can be used as far as it is capable of expressing the protein *in vitro*, in *E. coli*, in cultured cells, or *in vivo*. For example, pBEST vector (Promega) is preferable for *in vitro* expression, pET vector (nitrogen) for *E. coli*, pME18S-FL3 vector (GenBank Accession No. AB009864) for cultured cells, and pME18S vector (Mol. Cell. Biol. (1988) 8: 466-472) for *in vivo* expression. To insert the DNA of the invention, ligation utilizing restriction sites can be performed according to the standard method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

**[0050]** The present invention also relates to a transformant carrying the vector of the invention. Any cell can be used as a host into which the vector of the invention is inserted, and various kinds of host cells can be used depending on the purposes. For strong expression of the protein in eukaryotic cells, COS cells or CHO cells can be used, for example.

**[0051]** Introduction of the vector into host cells can be performed, for example, by calcium phosphate precipitation method, electroporation method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 9.1-9.9), lipofectamine method (GIBCO-BRL), or microinjection method, etc.

**[0052]** The primer of the present invention can be used for synthesizing full-length cDNA, and also for the detection and/or diagnosis of the abnormality of the protein of the invention encoded by the full-length cDNA. For example, by utilizing polymerase chain reaction (genomic DNA-PCR, or RT-PCR) using the primer of the invention, DNA encoding the protein of the invention can be amplified. It is also possible to obtain the regulatory region of expression in the 5'-upstream by using PCR or hybridization since the transcription start site within the genomic sequence can be easily specified based on the 5'-end sequence of the full-length cDNA. The obtained genomic region can be used for detection and/or diagnosis of the abnormality of the sequence by RFLP analysis, SSCP, or direct sequencing.

[0053] Furthermore, the "polynucleotide having a length of at least 15 nucleotides, comprising a nucleotide sequence that is complementary to a polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs in Tables 350 and 351, or its complementary strand" includes an antisense polynucleotide for suppressing the expression of the protein of the invention. To exert the antisense effect, the antisense polynucleotide has a length of at least 15 bp or more, for example, 50 bp or more, preferably 100 bp or more, and more preferably 500 bp or more, and has a length of usually 3000 bp or less and preferably 2000 bp or less. The antisense DNA can be used in the gene therapy of the diseases that are caused by the abnormality of the protein of the invention (abnormal function or abnormal expression). Said antisense DNA can be prepared, for example, by the phosphorothioate method ("Physicochemical properties of phosphorothioate oligodeoxynucleotides." Stein (1988) *Nucleic Acids Res.* 16: 3209-3221) based on the nucleotide sequence of the DNA encoding the protein (for example, the DNA set forth in any one of SEQ ID NOs in Tables 350 and 351).

[0054] The polynucleotide or antisense DNA of the present invention can be used in gene therapy, for example, by administering it into a patient by the *in vivo* or *ex vivo* method with virus vectors such as retrovirus vectors, adenovirus vectors, and adeno-associated virus vectors, or non-virus vectors such as liposome.

[0055] The present invention also relates to antibodies that bind to the protein of the invention.

There are no limitations in the form of the antibodies of the invention. They include polyclonal antibodies, monoclonal antibodies, or their portions that can bind to the protein of the invention. They also include antibodies of all classes. Furthermore, special antibodies such as humanized antibodies are also included.

[0056] The polyclonal antibody of the invention can be obtained according to the standard method by synthesizing an oligopeptide corresponding to the amino acid sequence and immunizing rabbits with the peptides (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.12-11.13). The monoclonal antibody of the invention can be obtained according to the standard method by purifying the protein expressed in *E. coli*, immunizing mice with the protein, and producing a hybridoma cell by fusing the spleen cells and myeloma cells (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

[0057] The antibody binding to the protein of the present invention can be used for purification of the protein of the invention, and also for detection and/or diagnosis of the abnormalities of the expression and structure of the protein. Specifically, proteins can be extracted, for example, from tissues, blood, or cells, and the protein of the invention is detected by Western blotting, immunoprecipitation, or ELISA, etc. for the above purpose.

[0058] Furthermore, the antibody binding to the protein of the present invention can be utilized for treating the diseases that associates with the protein of the invention. If the antibodies are used for treating patients, human antibodies or humanized antibodies are preferable in terms of their low antigenicity. The human antibodies can be prepared by immunizing a mouse whose immune system is replaced with that of human ("Functional transplant of megabase human immunoglobulin loci recapitulates human antibody response in mice" Mendez M.J. et al. (1997) *Nat. Genet.* 15: 146-156). The humanized antibodies can be prepared by recombination of the hypervariable region of a monoclonal antibody (Methods in Enzymology (1991) 203: 99-121).

[0059] The cDNA of the present invention encodes the amino acid sequence of a protein which is predicted to have the function(s) described below based on the homology search of the GenBank and SwissProt. Specifically, for instance, as shown in EXAMPLES, searching a known gene or protein that is homologous to the partial sequence of the full-length cDNA of the invention (5602 clone) and referring the function of the gene and of the protein encoded by the gene make it possible to predict the function of the protein encoded by the cDNA of the invention. In this way, each of 1437 clones out of the 5602 full-length cDNA clones of the invention was predicted to encode a protein that was classified into one or more of the following categories.

- Secretory or membrane protein (261 clones)
- Glycoprotein-associated protein (113 clones)
- Signal transduction-associated protein (148 clones)
- Transcription-associated protein (233 clones)
- Disease-associated protein (437 clones)
- Enzyme or metabolism-associated protein (301 clones)
- Cell division- or cell proliferation-associated protein (74 clones)
- Cytoskeleton-associated protein (92 clones)
- RNA synthesis-associated protein (280 clones)
- Nuclear protein (352 clones)
- Protein synthesis- or transport-associated protein (112 clones)
- Cellular defense-associated protein (23 clones)
- Development- or growth-associated protein (23 clones)

[0060] It is also possible to predict the protein function by looking into the amino acid sequence for the motifs such

as the signal sequence, transmembrane region, nuclear translocation signal, glycosylation signal, phosphorylation site, Zinc finger motif, and SH3 domain. The programs, PSORT (Nakai K., and Kanehisa M. (1992) *Genomics* 14: 897-911), SOSUI (Hirokawa T. et al. (1998) *Bioinformatics* 14: 378-379) (Mitsui Information Developing Inc.), and MEMSAT (Jones D.T., Taylor W.R., and Thornton J.M. (1994) *Biochemistry* 33: 3038-3049) can be used to predict the existence of the signal sequence or transmembrane region. Alternatively, a partial amino acid sequence of the protein is fused with another protein such as GFP, the fusion protein is transfected into cultured cells, and the localization is analyzed to predict the function of the original protein.

**[0061]** Based on the determined nucleotide sequences of the full-length cDNAs obtained in the present invention, it is possible to predict more detailed functions of the proteins encoded by the cDNA clones, for example, by searching the databases such as GenBank, Swiss-Prot and UniGene for homologies of the cDNAs; or by searching the amino acid sequences deduced from the full-length cDNAs for signal sequences by using software programs such as PSORT, for transmembrane regions by using software programs such as SOSUI or for motifs by using software programs such as Pfam (<http://www.sanger.ac.uk/Software/Pfam/index.shtml>) and PROSITE (<http://www.expasy.ch/prosite/>). As a matter of course, the functions are often predictable by using partial sequence information (preferably 300 nucleotides or more) instead of the full-length nucleotide sequences. However, the result of the prediction by using partial nucleotide sequence does not always agree with the result obtained by using full-length nucleotide sequence, and thus, it is needless to say that the prediction of function is preferably performed based on the full-length nucleotide sequences. GenBank, Swiss-Prot and UniGene databases were searched for homologies of the full-length nucleotide sequences of the 4997 clones (see Example 18). The amino acid sequences deduced from the full-length nucleotide sequences were searched for functional domains by PSORT, SOSUI and Pfam. Prediction of functions of proteins encoded by the clones and the categorization thereof were performed based on these results obtained.

The following 798 clones were categorized into secretory and/or membrane proteins.

HEMBA1000356,	HEMBA1000518,	HEMBA1000531,	HEMBA1000637,	HEMBA1000719,	HEMBA1000817,
HEMBA1000822,	HEMBA1000852,	HEMBA1000870,	HEMBA1000991,	HEMBA1001052,	HEMBA1001071,
HEMBA1001085,	HEMBA1001286,	HEMBA1001351,	HEMBA1001407,	HEMBA1001446,	HEMBA1001515,
HEMBA1001557,	HEMBA1001569,	HEMBA1001661,	HEMBA1001734,	HEMBA1001746,	HEMBA1001866,
HEMBA1002125,	HEMBA1002150,	HEMBA1002166,	HEMBA1002417,	HEMBA1002462,	HEMBA1002475,
HEMBA1002477,	HEMBA1002486,	HEMBA1002609,	HEMBA1002659,	HEMBA1002661,	HEMBA1002780,
HEMBA1002818,	HEMBA1002876,	HEMBA1002921,	HEMBA1003071,	HEMBA1003077,	HEMBA1003079,
HEMBA1003086,	HEMBA1003096,	HEMBA1003281,	HEMBA1003286,	HEMBA1003538,	HEMBA1003711,
HEMBA1003742,	HEMBA1003803,	HEMBA1004055,	HEMBA1004143,	HEMBA1004146,	HEMBA1004207,
HEMBA1004341,	HEMBA1004461,	HEMBA1004577,	HEMBA1004637,	HEMBA1004752,	HEMBA1004756,
HEMBA1004850,	HEMBA1004889,	HEMBA1004923,	HEMBA1004930,	HEMBA1005029,	HEMBA1005035,
HEMBA1005050,	HEMBA1005552,	HEMBA1005576,	HEMBA1005581,	HEMBA1005588,	HEMBA1005616,
HEMBA1005699,	HEMBA1005991,	HEMBA1006036,	HEMBA1006038,	HEMBA1006067,	HEMBA1006173,
HEMBA1006198,	HEMBA1006293,	HEMBA1006310,	HEMBA1006492,	HEMBA1006502,	HEMBA1006583,
HEMBA1006659,	HEMBA1006758,	HEMBA1006789,	HEMBA1006921,	HEMBA1006926,	HEMBA1006976,
HEMBA1007203,	HEMBA1007301,	HEMBA1000037,	HEMBA1000050,	HEMBA1000054,	HEMBA1000175,
HEMBA1000317,	HEMBA1000556,	HEMBA1000593,	HEMBA1000631,	HEMBA1000763,	HEMBA1000827,
HEMBA1000915,	HEMBA1000975,	HEMBA1001112,	HEMBA1001151,	HEMBA1001177,	HEMBA1001302,
HEMBA1001348,	HEMBA1001564,	HEMBA1001630,	HEMBA1001871,	HEMBA1001872,	HEMBA1001925,
HEMBA1001962,	HEMBA1002042,	HEMBA1002044,	HEMBA1002142,	HEMBA1002190,	HEMBA1002193,
HEMBA1002247,	HEMBA1002383,	HEMBA1002387,	HEMBA1002350,	HEMBA1002600,	HEMBA1002692,
MAMMA1000045,	MAMMA1000129,	MAMMA1000133,	MAMMA1000277,	MAMMA1000278,	MAMMA1000410,
MAMMA1000416,	MAMMA1000472,	MAMMA1000672,	MAMMA1000684,	MAMMA1000714,	MAMMA1000734,
MAMMA1000778,	MAMMA1000798,	MAMMA1000842,	MAMMA1000859,	MAMMA1000897,	MAMMA1000956,
MAMMA1001008,	MAMMA1001030,	MAMMA1001041,	MAMMA1001073,	MAMMA1001080,	MAMMA1001139,
MAMMA1001154,	MAMMA1001322,	MAMMA1001388,	MAMMA1001411,	MAMMA1001487,	MAMMA1001751,
MAMMA1001754,	MAMMA1001771,	MAMMA1002009,	MAMMA1002427,	MAMMA1002428,	MAMMA1002461,
MAMMA1002524,	MAMMA1002573,	MAMMA1002598,	MAMMA1002655,	MAMMA1002684,	MAMMA1002769,
MAMMA1002844,	MAMMA1002861,	MAMMA1002890,	MAMMA1002938,	MAMMA1002947,	MAMMA1003035,
MAMMA1003089,	MAMMA1003146,	MAMMA1003150,	NT2RM1000035,	NT2RM1000037,	NT2RM1000062,
NT2RM1000080,	NT2RM1000092,	NT2RM1000131,	NT2RM1000199,	NT2RM1000257,	NT2RM1000260,
NT2RM1000355,	NT2RM1000430,	NT2RM1000563,	NT2RM1000648,	NT2RM1000742,	NT2RM1000770,
NT2RM1000800,	NT2RM1000811,	NT2RM1000833,	NT2RM1000857,	NT2RM1000867,	NT2RM1000882,
NT2RM1000905,	NT2RM1001008,				
NT2RM1001115,	NT2RM1001139,	NT2RM2000259,	NT2RM2000260,	NT2RM2000287,	NT2RM2000395,
NT2RM2000402,	NT2RM2000407,	NT2RM2000422,	NT2RM2000490,	NT2RM2000522,	NT2RM2000566,

	NT2RM2000581,	NT2RM2000609,	NT2RM2000821,	NT2RM2001370,	NT2RM2001393,	NT2RM2001499,
	NT2RM2001547,	NT2RM2001613,	NT2RM2001648,	NT2RM2001659,	NT2RM2001671,	NT2RM2001688,
	NT2RM2001698,	NT2RM2001718,	NT2RM2001753,	NT2RM2001760,	NT2RM2001785,	NT2RM2001930,
	NT2RM2001950,	NT2RM2001997,	NT2RM2001998,	NT2RM2002049,	NT2RM2002145,	NT2RM4000233,
5	NT2RM4000433,	NT2RM4000457,	NT2RM4000486,	NT2RM4000496,	NT2RM4000520,	NT2RM4000634,
	NT2RM4000674,	NT2RM4000700,	NT2RM4000764,	NT2RM4000778,	NT2RM4000795,	NT2RM4000820,
	NT2RM4000857,	NT2RM4001032,	NT2RM4001054,	NT2RM4001116,	NT2RM4001455,	NT2RM4001666,
	NT2RM4001810,	NT2RM4001813,	NT2RM4001930,	NT2RM4001987,	NT2RM4002054,	NT2RM4002073,
	NT2RM4002145,	NT2RM4002146,	NT2RM4002189,	NT2RM4002194,	NT2RM4002251,	NT2RM4002339,
10	NT2RM4002438,	NT2RM4002446,	NT2RM4002452,	NT2RM4002460,	NT2RM4002493,	NT2RM4002558,
	NT2RM4002565,	NT2RM4002571,	NT2RM4002594,	NT2RP1000130,	NT2RP1000191,	NT2RP1000326,
	NT2RP1000358,	NT2RP1000413,	NT2RP1000418,	NT2RP1000547,	NT2RP1000609,	NT2RP1000677,
	NT2RP1000767,	NT2RP1000782,	NT2RP1000856,	NT2RP1001113,	NT2RP1001247,	NT2RP1001286,
	NT2RP1001310,	NT2RP1001311,	NT2RP1001313,	NT2RP1001385,	NT2RP1001449,	NT2RP1001546,
15	NT2RP1001569,	NT2RP2000032,	NT2RP2000040,	NT2RP2000056,	NT2RP2000070,	NT2RP2000091,
	NT2RP2000114,	NT2RP2000120,	NT2RP2000173,	NT2RP2000175,	NT2RP2000195,	NT2RP2000257,
	NT2RP2000270,	NT2RP2000283,	NT2RP2000288,	NT2RP2000289,	NT2RP2000459,	NT2RP2000516,
	NT2RP2000660,	NT2RP2000684,	NT2RP2000892,	NT2RP2001081,	NT2RP2001268,	NT2RP2001295,
	NT2RP2001366,	NT2RP2001378,	NT2RP2001576,	NT2RP2001581,	NT2RP2001597,	NT2RP2001613,
20	NT2RP2001947,	NT2RP2001991,	NT2RP2002025,	NT2RP2002066,	NT2RP2002078,	NT2RP2002105,
	NT2RP2002312,	NT2RP2002325,	NT2RP2002385,	NT2RP2002479,	NT2RP2002537,	NT2RP2002643,
	NT2RP2002701,	NT2RP2002740,	NT2RP2002857,	NT2RP2003125,	NT2RP2003297,	NT2RP2003433,
	NT2RP2003446,	NT2RP2003466,	NT2RP2003506,	NT2RP2003513,	NT2RP2003629,	NT2RP2003668,
	NT2RP2003760,	NT2RP2003777,	NT2RP2003781,	NT2RP2004041,	NT2RP2004142,	NT2RP2004194,
25	NT2RP2004270,	NT2RP2004300,	NT2RP2004392,	NT2RP2004655,	NT2RP2004681,	NT2RP2004775,
	NT2RP2004799,	NT2RP2004936,	NT2RP2004959,	NT2RP2005012,	NT2RP2005159,	NT2RP2005227,
	NT2RP2005270,	NT2RP2005344,	NT2RP2005465,	NT2RP2005509,	NT2RP2005752,	NT2RP2005781,
	NT2RP2005784,	NT2RP2005812,	NT2RP2006069,	NT2RP2006100,	NT2RP2006141,	NT2RP2006184,
	NT2RP2006261,	NT2RP2006565,	NT2RP2006571,	NT2RP2006573,	NT2RP3000092,	NT2RP3000109,
30	NT2RP3000134,	NT2RP3000207,	NT2RP3000333,	NT2RP3000341,	NT2RP3000393,	NT2RP3000439,
	NT2RP3000441,	NT2RP3000531,	NT2RP3000685,	NT2RP3000825,	NT2RP3000826,	NT2RP3000852,
	NT2RP3000919,	NT2RP3001084,	NT2RP3001096,	NT2RP3001126,	NT2RP3001140,	NT2RP3001176,
	NT2RP3001260,	NT2RP3001282,	NT2RP3001355,	NT2RP3001383,	NT2RP3001426,	NT2RP3001453,
	NT2RP3001497,	NT2RP3001538,	NT2RP3001589,	NT2RP3001642,	NT2RP3001708,	NT2RP3001716,
35	NT2RP3001727,	NT2RP3001739,	NT2RP3001799,	NT2RP3001943,	NT2RP3001944,	NT2RP3002002,
	NT2RP3002007,	NT2RP3002014,	NT2RP3002054,	NT2RP3002108,	NT2RP3002163,	NT2RP3002351,
	NT2RP3002455,	NT2RP3002549,	NT2RP3002602,	NT2RP3002628,	NT2RP3002650,	NT2RP3002687,
	NT2RP3002701,	NT2RP3002810,	NT2RP3002869,	NT2RP3002969,	NT2RP3002985,	NT2RP3003008,
	NT2RP3003059,	NT2RP3003071,	NT2RP3003101,	NT2RP3003145,	NT2RP3003197,	NT2RP3003203,
40	NT2RP3003242,	NT2RP3003302,	NT2RP3003353,	NT2RP3003409,	NT2RP3003576,	NT2RP3003621,
	NT2RP3003665,	NT2RP3003672,	NT2RP3003701,	NT2RP3003716,	NT2RP3003799,	NT2RP3003828,
	NT2RP3003914,	NT2RP3003918,	NT2RP3003992,	NT2RP3004051,	NT2RP3004148,	NT2RP3004155,
	NT2RP3004207,	NT2RP3004282,	NT2RP3004454,	NT2RP3004480,	NT2RP3004503,	NT2RP4000008,
	NT2RP4000051,	NT2RP4000151,	NT2RP4000212,	NT2RP4000243,	NT2RP4000259,	NT2RP4000323,
45	NT2RP4000417,	NT2RP4000500,	NT2RP4000524,	NT2RP4000556,	NT2RP4000560,	NT2RP4000588,
	NT2RP4000713,	NT2RP4000724,	NT2RP4000817,	NT2RP4000833,	NT2RP4000878,	NT2RP4000907,
	NT2RP4000925,	NT2RP4000928,	NT2RP4000973,	NT2RP4000989,	NT2RP4001057,	NT2RP4001064,
	NT2RP4001079,	NT2RP4001117,	NT2RP4001138,	NT2RP4001149,	NT2RP4001150,	NT2RP4001174,
	NT2RP4001219,	NT2RP4001274,	NT2RP4001313,	NT2RP4001345,	NT2RP4001372,	NT2RP4001373,
50	NT2RP4001379,	NT2RP4001498,	NT2RP4001547,	NT2RP4001571,	NT2RP4001574,	NT2RP4001644,
	NT2RP4001656,	NT2RP4001677,	NT2RP4001730,	NT2RP4001739,	NT2RP4001803,	NT2RP4001822,
	NT2RP4001823,	NT2RP4001950,	NT2RP4001975,	NT2RP4002052,	NT2RP4002075,	NT2RP5003500,
	NT2RP5003506,	NT2RP5003522,	NT2RP5003534,	OVARC1000060,	OVARC1000335,	OVARC1000682,
	OVARC1000689,	OVARC1000700,	OVARC1000722,	OVARC1000751,	OVARC1000850,	OVARC1000890,
55	OVARC1000924,	OVARC1000936,	OVARC1000959,	OVARC1000984,	OVARC1000999,	OVARC1001034,
	OVARC1001055,	OVARC1001117,	OVARC1001129,	OVARC1001154,	OVARC1001329,	OVARC1001381,
	OVARC1001391,	OVARC1001453,	OVARC1001476,	OVARC1001506,	OVARC1001610,	OVARC1001702,
	OVARC1001703,	OVARC1001713,	OVARC1001745,	OVARC1001767,	OVARC1002127,	OVARC1002138,



	OVARC1002158, PLACE1000611, PLACE1000977, PLACE1001761, PLACE1002213, PLACE1002722, PLACE1003044, PLACE1003493, PLACE1003771, PLACE1004270, PLACE1004743, PLACE1005162, PLACE1005611, PLACE1005934, PLACE1006492, PLACE1006956, PLACE1007375, PLACE1007632, PLACE1008273, PLACE1008531, PLACE1008715, PLACE1009368, PLACE1009845, PLACE1010321, PLACE1010917, PLACE1011371, PLACE2000034, PLACE2000216, PLACE2000399, PLACE3000218, PLACE3000399, PLACE4000129, PLACE4000431, PLACE4000593, THYRO1000570, THYRO1001287, THYRO1001828, Y79AA1000976, Y79AA1001647, Y79AA1002399	OVARC1002165, PLACE1000656, PLACE1001241, PLACE1001771, PLACE1002395, PLACE1002782, PLACE1003045, PLACE1003537, PLACE1003903, PLACE1004277, PLACE1004751, PLACE1005206, PLACE1005623, PLACE1005953, PLACE1006534, PLACE1007111, PLACE1007386, PLACE1007645, PLACE1008309, PLACE1008532, PLACE1009045, PLACE1009493, PLACE1009861, PLACE1010362, PLACE1010942, PLACE1011399, PLACE2000062, PLACE2000335, PLACE2000425, PLACE3000226, PLACE3000406, PLACE4000247, PLACE4000487, PLACE4000650, THYRO1000748, THYRO1001320, Y79AA1000258, Y79AA1001023, Y79AA1001846, Y79AA1002416	PLACE1000014, PLACE1000712, PLACE1001257, PLACE1001817, PLACE1002437, PLACE1002794, PLACE1003238, PLACE1003553, PLACE1004149, PLACE1004289, PLACE1004793, PLACE1005313, PLACE1005763, PLACE1006157, PLACE1006678, PLACE1007243, PLACE1007409, PLACE1007649, PLACE1008331, PLACE1008533, PLACE1009094, PLACE1009639, PLACE1009935, PLACE1010599, PLACE1010954, PLACE1011492, PLACE2000111, PLACE2000341, PLACE2000438, PLACE3000242, PLACE3000443, PLACE4000250, PLACE4000494, THYRO1000156, THYRO1000756, THYRO1001401, Y79AA1000240, Y79AA1001177, Y79AA1001874, MAMMA1002498	PLACE1000213, PLACE1000793, PLACE1001377, PLACE1001983, PLACE1002500, PLACE1002851, PLACE1003296, PLACE1003596, PLACE1004197, PLACE1004473, PLACE1004840, PLACE1005467, PLACE1005884, PLACE1006225, PLACE1006754, PLACE1007274, PLACE1007416, PLACE1007852, PLACE1008402, PLACE1008568, PLACE1009298, PLACE1009659, PLACE1009992, PLACE1010622, PLACE1011090, PLACE1011646, PLACE2000132, PLACE2000373, PLACE2000458, PLACE3000244, PLACE3000455, PLACE4000259, PLACE4000522, THYRO1000327, THYRO1000783, THYRO1001534, Y79AA1000469, Y79AA1001384, Y79AA1002139, NT2RM4002287	PLACE1000401, PLACE1000909, PLACE1001517, PLACE1002046, PLACE1002583, PLACE1002908, PLACE1003369, PLACE1003760, PLACE1004203, PLACE1004629, PLACE1004969, PLACE1005530, PLACE1005890, PLACE1006239, PLACE1006901, PLACE1007282, PLACE1007484, PLACE1007877, PLACE1008424, PLACE1008643, PLACE1009319, PLACE1009708, PLACE1010089, PLACE1010662, PLACE1011214, PLACE1011749, PLACE2000176, PLACE2000379, PLACE2000477, PLACE3000339, PLACE4000052, PLACE4000300, PLACE4000548, THYRO1000394, THYRO1001134, THYRO1001537, Y79AA1000734, Y79AA1001394, Y79AA1002246	PLACE1000562, PLACE1000948, PLACE1001610, PLACE1002140, PLACE1002714, PLACE1003030, PLACE1003420, PLACE1003768, PLACE1004258, PLACE1004646, PLACE1005086, PLACE1005595, PLACE1005898, PLACE1006288, PLACE1006935, PLACE1007317, PLACE1007583, PLACE1007954, PLACE1008429, PLACE1008693, PLACE1009338, PLACE1009731, PLACE1010231, PLACE1010811, PLACE1011221, PLACE1011896, PLACE2000187, PLACE2000398, PLACE3000020, PLACE3000373, PLACE4000063, PLACE4000387, PLACE4000581, THYRO1000395, THYRO1001271, THYRO1001541, Y79AA1000800, Y79AA1001603, Y79AA1002351
<b>[0062]</b> The following 142 clones were categorized into glycoprotein-associated proteins.						
	HEMBA1000156, HEMBA1000518, HEMBA1000852, HEMBA1001071, HEMBA1001286, HEMBA1001661, HEMBA1001734, HEMBA1001866, HEMBA1003071, HEMBA1003077, HEMBA1003281, HEMBA1003538, HEMBA1003679, HEMBA1003866, HEMBA1005576, HEMBA1005581, HEMBA1005699, HEMBA1006038, HEMBA1006976, HEMBA1007301, HEMBB1000317, HEMBB1000915, HEMBB1001871, HEMBB1001872, HEMBB1002193, MAMMA1000672, MAMMA1000897, MAMMA1001030, MAMMA1001388, MAMMA1002329, MAMMA1002428, MAMMA1002573, MAMMA1003150, NT2RM1000648, NT2RM1001115, NT2RM2000260, NT2RM2000407, NT2RM2000422, NT2RM2000490, NT2RM2001499, NT2RM2001659, NT2RM2001930, NT2RM4000820, NT2RM4000857, NT2RM4001810, NT2RM4001813, NT2RM4001987, NT2RM4002145, NT2RM4002189, NT2RM4002251, NT2RM4002460, NT2RM4002558, NT2RP1000677, NT2RP1000782, NT2RP1000856, NT2RP1001546, NT2RP2000056, NT2RP2000070, NT2RP2001295, NT2RP2001376, NT2RP2001597, NT2RP2001991, NT2RP2002025, NT2RP2002078, NT2RP2002385, NT2RP2004587, NT2RP2004732, NT2RP2005531, NT2RP3000207, NT2RP3000531, NT2RP3000825, NT2RP3001140, NT2RP3002810, NT2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003914, NT2RP3004148, NT2RP4000212, NT2RP4000417, NT2RP4000724, NT2RP4000817, NT2RP4000925, NT2RP4001150, NT2RP4001372, NT2RP4001730, NT2RP4001822, NT2RP4001823, NT2RP5003522, OVARC1000091, OVARC1000288, OVARC1000682, OVARC1001055, OVARC1001506, OVARC1001713, OVARC1002127, PLACE1000213, PLACE1000401, PLACE1002437, PLACE1002583,					

	PLACE1002722, PLACE1003045, PLACE1003238, PLACE1003258, PLACE1003493, PLACE1004197, PLACE1004793, PLACE1005953, PLACE1005955, PLACE1006157, PLACE1006239, PLACE1006368, PLACE1006534, PLACE1006754, PLACE1006956, PLACE1007416, PLACE1007632, PLACE1007649, PLACE1008643, PLACE1009094,	
5	PLACE1009992, PLACE1010231, PLACE1010662, PLACE1011371, PLACE2000034, PLACE2000373, PLACE2000398, PLACE2000399, PLACE2000438, PLACE2000458, PLACE3000339, PLACE4000063, PLACE4000230, PLACE4000522, PLACE4000548, PLACE4000581, THYRO1000327, THYRO1000756, THYRO1001287, Y79AA1001603, Y79AA1001874, MAMMA1002498	
	<b>[0063]</b> The following 140 clones were categorized into signal transduction-associated proteins.	
10	HEMBA1000303, HEMBA1000369, HEMBA1000608, HEMBA1000657, HEMBA1000919, HEMBA1001019, HEMBA1001174, HEMBA1001822, HEMBA1001921, HEMBA1002139, HEMBA1002212, HEMBA1002341, HEMBA1002418, HEMBA1002768, HEMBA1003250, HEMBA1003291, HEMBA1003645, HEMBA1004286, HEMBA1005737, HEMBA1006130, HEMBA1006708, HEMBB1000083, HEMBB1000266, HEMBB1000632, HEMBB1000781, HEMBB1000831, HEMBB1002193, MAMMA1000173, MAMMA1001038,	
15	MAMMA1001198, MAMMA1002842, MAMMA1003057, NT2RM1000702, NT2RM1000772, NT2RM1001072, NT2RM2000030, NT2RM2000469, NT2RM2000612, NT2RM2001221, NT2RM2001345, NT2RM2002128, NT2RM4000229, NT2RM4000354, NT2RM4000611, NT2RM4000798, NT2RM4001411, NT2RM4001412, NT2RM4001629, NT2RM4001758, NT2RM4002013, NT2RM4002527, NT2RP1000018, NT2RP1000701, NT2RP1001284, NT2RP1001302, NT2RP2000668, NT2RP2001440, NT2RP2001560, NT2RP2002058, NT2RP2002193, NT2RP2002408, NT2RP2002710, NT2RP2002929, NT2RP2003164, NT2RP2003912, NT2RP2004232, NT2RP2004768, NT2RP2006071, NT2RP2006534, NT2RP3000759, NT2RP3000845, NT2RP3001646, NT2RP3001857, NT2RP3001938, NT2RP3002004, NT2RP3002785, NT2RP3002909, NT2RP3002988, NT2RP3003800, NT2RP3004189, NT2RP3004544, NT2RP4000147, NT2RP4000839, NT2RP4001122, NT2RP4001148, NT2RP4001336, NT2RP4001375, NT2RP4001644, NT2RP4001725, NT2RP4001849, NT2RP4001896, NT2RP4001927, NT2RP4002408, NT2RP5003477, OVARC1000013,	
20	OVARC1000437, OVARC1000556, OVARC1000649, OVARC1000945, OVARC1001200, OVARC1002182, PLACE1000977, PLACE1001387, PLACE1002493, PLACE1002591, PLACE1003190, PLACE1003353, PLACE1004128, PLACE1004302, PLACE1004937, PLACE1005243, PLACE1008000, PLACE1008244, PLACE1008650, PLACE1009468, PLACE1009596, PLACE1009708, PLACE1009845, PLACE1010926, PLACE1011041, PLACE2000164, PLACE2000371, PLACE3000145, PLACE3000350, THYRO1000072, THYRO1000748, THYRO1001120, Y79AA1000328, Y79AA1002431, HEMBA1001247, NT2RM2001813, NT2RM4001454, NT2RP2005140, NT2RP2005293, NT2RP3000487, NT2RP3003311, PLACE1000972, PLACE1003723, PLACE1005327, PLACE3000124,	
	<b>[0064]</b> The following 321 clones were categorized into transcription-associated proteins.	
35	HEMBA1000158, HEMBA1000201, HEMBA1000216, HEMBA1000555, HEMBA1000561, HEMBA1000851, HEMBA1001077, HEMBA1001137, HEMBA1001405, HEMBA1001510, HEMBA1001635, HEMBA1001804, HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1001869, HEMBA1002035, HEMBA1002092, HEMBA1002177, HEMBA1002770, HEMBA1002935, HEMBA1003408, HEMBA1003545, HEMBA1003568, HEMBA1003662, HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004389, HEMBA1004479, HEMBA1004758, HEMBA1004973, HEMBA1005219, HEMBA1005359, HEMBA1005513, HEMBA1005528, HEMBA1005548, HEMBA1005658, HEMBA1005931, HEMBA1006158, HEMBA1006248, HEMBA1006278, HEMBA1006283, HEMBA1006347, HEMBA1006359, HEMBA1006559, HEMBA1006941, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001673, HEMBB1001749, HEMBB1001839, HEMBB1001908, HEMBB1002134, HEMBB1002217, HEMBB1002342, HEMBB1002607, MAMMA1000183, MAMMA1000388, MAMMA1001105, MAMMA1001222, MAMMA1001260, MAMMA1001627, MAMMA1001633, MAMMA1001743, MAMMA1001820, MAMMA1001837, MAMMA1002617, MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000086, NT2RM1000746, NT2RM1000885, NT2RM1000994, NT2RM1001092, NT2RM2000013, NT2RM2000452, NT2RM2000735, NT2RM2000740, NT2RM2001035, NT2RM2001105, NT2RM2001575, NT2RM2001670, NT2RM2001716, NT2RM2001771, NT2RM2002091, NT2RM4000024, NT2RM4000046, NT2RM4000104, NT2RM4000202, NT2RM4000531, NT2RM4000595, NT2RM4000733, NT2RM4000734, NT2RM4000741, NT2RM4000751, NT2RM4000996, NT2RM4001092, NT2RM4001140, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RM4002066, NT2RP1000086, NT2RP1000111, NT2RP1000574, NT2RP1000902, NT2RP1001013, NT2RP2000008, NT2RP2000126, NT2RP2000297, NT2RP2000420, NT2RP2001174, NT2RP2001233, NT2RP2001756, NT2RP2001869, NT2RP2002046, NT2RP2002252, NT2RP2002270, NT2RP2002464, NT2RP2002503, NT2RP2002520, NT2RP2002591, NT2RP2002880, NT2RP2002939, NT2RP2002993, NT2RP2003243, NT2RP2003329, NT2RP2003347, NT2RP2003480, NT2RP2003522,	

	NT2RP2003564,	NT2RP2003714,	NT2RP2004013,	NT2RP2004066,	NT2RP2004187,	NT2RP2004920,
	NT2RP2004961,	NT2RP2005003,	NT2RP2005139,	NT2RP2005325,	NT2RP2005496,	NT2RP2005701,
	NT2RP2005722,	NT2RP2005776,	NT2RP2005942,	NT2RP2006238,	NT2RP2006436,	NT2RP2006050,
	NT2RP3000320,	NT2RP3000512,	NT2RP3000527,	NT2RP3000590,	NT2RP3000603,	NT2RP3000605,
5	NT2RP3000632,	NT2RP3001057,	NT2RP3001107,	NT2RP3001111,	NT2RP3001120,	NT2RP3001150,
	NT2RP3001268,	NT2RP3001338,	NT2RP3001398,	NT2RP3001527,	NT2RP3001668,	NT2RP3001855,
	NT2RP3002165,	NT2RP3002399,	NT2RP3002876,	NT2RP3003133,	NT2RP3003193,	NT2RP3003251,
	NT2RP3003313,	NT2RP3003327,	NT2RP3003555,	NT2RP3004016,	NT2RP3004125,	NT2RP3004242,
	NT2RP3004428,	NT2RP3004498,	NT2RP3004566,	NT2RP3004617,	NT2RP4000210,	NT2RP4000398,
10	NT2RP4000455,	NT2RP4000648,	NT2RP4000837,	NT2RP4000865,	NT2RP4000997,	NT2RP4001029,
	NT2RP4001080,	NT2RP4001213,	NT2RP4001433,	NT2RP4001529,	NT2RP4001551,	NT2RP4001568,
	NT2RP4001638,	NT2RP4001753,	NT2RP4001760,	NT2RP4001790,	NT2RP4001838,	NT2RP4001938,
	NT2RP4002078,	NT2RP4002081,	NT2RP5003461,	OVARC1000151,	OVARC1000241,	OVARC1000479,
	OVARC1001271,	OVARC1001417,	OVARC1001436,	PLACE1000133,	PLACE1000583,	PLACE1000706,
15	PLACE1000786,	PLACE1000979,	PLACE1001118,	PLACE1001238,	PLACE1001294,	PLACE1001304,
	PLACE1001383,	PLACE1001802,	PLACE1001632,	PLACE1002171,	PLACE1002438,	PLACE1002450,
	PLACE1002532,	PLACE1002775,	PLACE1002834,	PLACE1003302,	PLACE1003605,	PLACE1003738,
	PLACE1003885,	PLACE1004471,	PLACE1005584,	PLACE1005803,	PLACE1005966,	PLACE1006167,
	PLACE1006318,	PLACE1006438,	PLACE1006482,	PLACE1007239,	PLACE1007346,	PLACE1007488,
20	PLACE1007547,	PLACE1007598,	PLACE1007955,	PLACE1008132,	PLACE1008201,	PLACE1008099,
	PLACE1009246,	PLACE1009308,	PLACE1009398,	PLACE1009798,	PLACE1010134,	PLACE1010702,
	PLACE1010771,	PLACE1010870,	PLACE1011160,	PLACE1011433,	PLACE1011576,	PLACE3000009,
	PLACE3000169,	PLACE3000254,	PLACE4000128,	PLACE4000156,	PLACE4000192,	PLACE4000211,
	PLACE4000261,	PLACE4000450,	PLACE4000489,	THYRO1000085,	THYRO1000121,	THYRO1000242,
25	1000488,	THYRO1000501,	THYRO100569,	THYRO1001100,	THYRO1001189,	THYRO1001809,
	Y79AA1000033,	Y79AA1000037,	Y79AA1000342,	Y79AA1000627,	Y79AA1000705,	Y79AA10001299,
	Y79AA1001312,	Y79AA1001391,	Y79AA1001533,	Y79AA1001613,	Y79AA1001866,	Y79AA1002103,
	Y79AA1002229,	Y79AA1002433,	Y79AA1002472,	Y79AA1002482,	HEMBA1003257,	NT2RM2000101,
	NT2RM2001797,	NT2RP1000101,	NT2RP2002208,	NT2RP3001214,	NT2RP3003278,	NT2RP4001235,
30	PLACE1000050,	PLACE1001716,	PLACE1002499,	PLACE1007544,		
	[0065] The following 392 clones were categorized into disease-associated proteins.					
	HEMBA1000020,	HEMBA1000216,	HEMBA1000304,	HEMBA1000561,	HEMBA1000569,	HEMBA1000910,
	HEMBA1001043,	HEMBA1001059,	HEMBA1001071,	HEMBA1001088,	HEMBA1001569,	HEMBA1001661,
	HEMBA1001672,	HEMBA1001819,	HEMBA1001921,	HEMBA1002267,	HEMBA1002419,	HEMBA1002469,
35	HEMBA1002547,	HEMBA1002555,	HEMBA1002810,	HEMBA1002939,	HEMBA1002997,	HEMBA1003148,
	HEMBA1003369,	HEMBA1003417,	HEMBA1003418,	HEMBA1003433,	HEMBA1003538,	HEMBA1003555,
	HEMBA1003568,	HEMBA1003569,	HEMBA1003581,	HEMBA1004168,	HEMBA1004202,	HEMBA1004248,
	HEMBA1004275,	HEMBA1004321,	HEMBA1004353,	HEMBA1004356,	HEMBA1004479,	HEMBA1004509,
	HEMBA1004669,	HEMBA1005009,	HEMBA1005338,	HEMBA1005367,	HEMBA1005423,	HEMBA1005528,
40	HEMBA1005581,	HEMBA1005621,	HEMBA1005699,	HEMBA1006507,	HEMBA1006650,	HEMBA1006652,
	HEMBA1006737,	HEMBA1006807,	HEMBA1006877,	HEMBA1007121,	HEMBA1007243,	HEMBA1001019,
	HEMBA1006963,	HEMBA1000927,	HEMBA1000985,	HEMBA1001068,	HEMBA1001282,	HEMBA1001339,
	HEMBA1001482,	HEMBA1001564,	HEMBA1001802,	HEMBA1001905,	HEMBA1001908,	HEMBA1002217,
	HEMBA1002477,	MAMMA1000386,	MAMMA1000731,	MAMMA1001305,	MAMMA1001633,	MAMMA1001868,
45	MAMMA1002170,	MAMMA1002198,	MAMMA1002268,	MAMMA1002485,	MAMMA1002530,	MAMMA1002858,
	MAMMA1002869,	MAMMA1002881,	MAMMA1003047,	MAMMA1003146,	MAMMA1003166,	NT2RM1000001,
	NT2RM1000153,	NT2RM1000252,	NT2RM1000555,	NT2RM1000770,	NT2RM1000826,	NT2RM1000850,
	NT2RM1001003,	NT2RM1001092,	NT2RM1001102,	NT2RM2000191,		
	NT2RM2000363,	NT2RM2000594,	NT2RM2000624,	NT2RM2000714,	NT2RM2000821,	NT2RM2001035,
50	NT2RM2001575,	NT2RM2001652,	NT2RM2001664,	NT2RM2001668,	NT2RM2001698,	NT2RM2001803,
	NT2RM2001839,	NT2RM4000155,	NT2RM4000471,	NT2RM4000486,	NT2RM4000657,	NT2RM4000751,
	NT2RM4000996,	NT2RM4001629,	NT2RM4001810,	NT2RM4001819,	NT2RM4001865,	NT2RM4001876,
	NT2RM4001940,	NT2RM4002066,	NT2RM4002093,	NT2RM4002146,	NT2RM4002161,	NT2RM4002323,
	NT2RM4002558,	NT2RM4002571,	NT2RP1000086,	NT2RP1000574,	NT2RP1000738,	NT2RP1000825,
55	NT2RP1000833,	NT2RP1000959,	NT2RP1000966,	NT2RP1001013,	NT2RP1001185,	NT2RP1001482,
	NT2RP1001665,	NT2RP2000070,	NT2RP2000147,	NT2RP2000224,	NT2RP2000248,	NT2RP2000297,
	NT2RP2000310,	NT2RP2000414,	NT2RP2000420,	NT2RP2000523,	NT2RP2000809,	NT2RP2000812,
	NT2RP2001233,	NT2RP2001327,	NT2RP2001378,	NT2RP2001394,	NT2RP2001397,	NT2RP2001460,

	NT2RP2001520,	NT2RP2001536,	NT2RP2001876,	NT2RP2001898,	NT2RP2002025,	NT2RP2002058,
	NT2RP2002124,	NT2RP2002325,	NT2RP2002503,	NT2RP2002959,	NT2RP2003000,	NT2RP2003157,
	NT2RP2003164,	NT2RP2003228,	NT2RP2003295,	NT2RP2003517,	NT2RP2003564,	NT2RP2003604,
	NT2RP2003714,	NT2RP2003737,	NT2RP2003952,	NT2RP2004013,	NT2RP2004170,	NT2RP2004587,
5	NT2RP2004732,	NT2RP2004933,	NT2RP2005003,	NT2RP2005144,	NT2RP2005239,	NT2RP2005276,
	NT2RP2005288,	NT2RP2005315,	NT2RP2005325,	NT2RP2005336,	NT2RP2005358,	NT2RP2005407,
	NT2RP2005436,	NT2RP2005476,	NT2RP2005525,	NT2RP2005694,	NT2RP2005719,	NT2RP2006043,
	NT2RP2006071,	NT2RP2006219,	NT2RP2006312,	NT2RP2006456,	NT2RP2006050,	NT2RP2006088,
	NT2RP3000085,	NT2RP3000299,	NT2RP3000403,	NT2RP3000596,	NT2RP3000739,	NT2RP3000753,
10	NT2RP3000875,	NT2RP3001057,	NT2RP3001081,	NT2RP3001216,	NT2RP3001307,	NT2RP3001338,
	NT2RP3001427,	NT2RP3001428,	NT2RP3001679,	NT2RP3001723,	NT2RP3001855,	NT2RP3001898,
	NT2RP3001969,	NT2RP3002056,	NT2RP3002062,	NT2RP3002151,	NT2RP3002351,	NT2RP3002399,
	NT2RP3002953,	NT2RP3002988,	NT2RP3003078,	NT2RP3003251,	NT2RP3003282,	NT2RP3003313,
	NT2RP3003327,	NT2RP3003409,	NT2RP3003672,	NT2RP3003831,	NT2RP3004016,	NT2RP3004078,
15	NT2RP3004209,	NT2RP3004258,	NT2RP3004490,	NT2RP3004534,	NT2RP3004569,	NT2RP3004572,
	NT2RP4000109,	NT2RP4000367,	NT2RP4000376,	NT2RP4000449,	NT2RP4000855,	NT2RP4000879,
	NT2RP4000925,	NT2RP4001086,	NT2RP4001126,	NT2RP4001150,	NT2RP4001213,	NT2RP4001276,
	NT2RP4001407,	NT2RP4001433,	NT2RP4001483,	NT2RP4001575,	NT2RP4001760,	NT2RP4001861,
	NT2RP4002078,	NT2RP4002791,	OVARC1000014,	OVARC1000139,	OVARC1000520,	OVARC1000722,
20	OVARC1000771,	OVARC1000834,	OVARC1001051,	OVARC1001113,	OVARC1001244,	OVARC1001372,
	OVARC1001417,	OVARC1001496,	OVARC1001506,	OVARC1001577,	OVARC1001726,	OVARC1001766,
	OVARC1001809,	OVARC1002165,	PLACE1000133,	PLACE1000383,	PLACE1000420,	PLACE1000583,
	PLACE1000588,	PLACE1001171,	PLACE1001387,	PLACE1001602,	PLACE1002046,	PLACE1002140,
	PLACE1002437,	PLACE1002474,	PLACE1002685,	PLACE1002782,	PLACE1002834,	PLACE1002908,
25	PLACE1003045,	PLACE1003302,	PLACE1003353,	PLACE1003366,	PLACE1003493,	PLACE1003669,
	PLACE1003704,	PLACE1003903,	PLACE1003968,	PLACE1004183,	PLACE1004197,	PLACE1004277,
	PLACE1004316,	PLACE1004358,	PLACE1004471,	PLACE1004506,	PLACE1004510,	PLACE1004674,
	PLACE1004777,	PLACE1004814,	PLACE1005494,	PLACE1006040,	PLACE1006170,	PLACE1006438,
	PLACE1006615,	PLACE1007140,	PLACE1007239,	PLACE1007257,	PLACE1007511,	PLACE1007598,
30	PLACE1008177,	PLACE1008356,	PLACE1008402,	PLACE1008696,	PLACE1009027,	PLACE1009113,
	PLACE1009158,	PLACE1009444,	PLACE1009524,	PLACE1010529,	PLACE1010870,	PLACE1010896,
	PLACE1011635,	PLACE1011858,	PLACE1011922,	PLACE2000015,	PLACE2000072,	PLACE2000216,
	PLACE2000399,	PLACE2000438,	PLACE2000458,	PLACE3000242,	PLACE4000009,	PLACE4000014,
	PLACE4000156,	PLACE4000369,	SKNCM1000046,	SKNCM1000050,	THYRO1000034,	THYRO1000327,
35	THYRO1000343,	THYRO1000358,	THYRO1000501,	THYRO1000662,	THYRO1000684,	THYRO1000748,
	THYRO1000934,	THYRO1001120,	THYRO1001189,	THYRO1001204,	THYRO1001458,	THYRO1001617,
	THYRO1001671,	Y79AA1000346,	Y79AA1000469,	Y79AA1000560,	Y79AA1000734,	Y79AA1000782,
	Y79AA1001391,	Y79AA1001548,	Y79AA1001594,	Y79AA1001711,	Y79AA1001874,	Y79AA1002204,
	Y79AA1002210,	Y79AA1002258,	Y79AA1002472,	Y79AA1002482,		
40	[0066] The following 427 clones presumably belong to enzymes and/or metabolism-associated proteins.					
	HEMBA1000012,	HEMBA1000129,	HEMBA1000141,	HEMBA1000150,	HEMBA1000542,	HEMBA1000852,
	HEMBA1001019,	HEMBA1001257,	HEMBA1001526,	HEMBA1001620,	HEMBA1001866,	HEMBA1001896,
	HEMBA1002212,	HEMBA1002513,	HEMBA1002746,	HEMBA1002973,	HEMBA1003046,	HEMBA1003136,
	HEMBA1003179,	HEMBA1003250,	HEMBA1003291,	HEMBA1003408,	HEMBA1003538,	HEMBA1003679,
45	HEMBA1003680,	HEMBA1004199,	HEMBA1004227,	HEMBA1004408,	HEMBA1004509,	HEMBA1004734,
	HEMBA1004768,	HEMBA1005394,	HEMBA1005513,	HEMBA1005737,	HEMBA1005815,	HEMBA1006031,
	HEMBA1006272,	HEMBA1006278,	HEMBA1006291,	HEMBA1006309,	HEMBA1006347,	HEMBA1006485,
	HEMBA1006521,	HEMBA1006624,	HEMBA1006885,	HEMBA1006976,	HEMBA1007121,	HEMBA1007224,
	HEMBA1007243,	HEMBA1007300,	HEMBA1000083,	HEMBA1000217,	HEMBA1000915,	HEMBA1000947,
50	HEMBA1001137,	HEMBA1001346,	HEMBA1001429,	HEMBA1001443,	HEMBA1001915,	HEMBA1001950,
	HEMBA1002042,	MAMMA1000020,	MAMMA1000085,	MAMMA1000672,	MAMMA1000713,	MAMMA1000841,
	MAMMA1000897,	MAMMA1001008,	MAMMA1001038,	MAMMA1001059,	MAMMA1001476,	MAMMA1001501,
	MAMMA1002268,	MAMMA1002470,	MAMMA1002530,	MAMMA1002573,	MAMMA1002619,	MAMMA1002655,
	MAMMA1002871,	MAMMA1003013,	MAMMA1003035,	NT2RM1000039,	NT2RM1000132,	NT2RM1000153,
55	NT2RM1000256,	NT2RM1000280,	NT2RM1000377,	NT2RM1000553,	NT2RM1000648,	NT2RM1000702,
	NT2RM1000894,	NT2RM1001072,	NT2RM1001115,	NT2RM2000013,	NT2RM2000092,	NT2RM2000322,
	NT2RM2000368,	NT2RM2000371,	NT2RM2000469,	NT2RM2000504,	NT2RM2000577,	NT2RM2000594,
	NT2RM2000951,	NT2RM2001238,	NT2RM2001547,	NT2RM2001632,	NT2RM2001664,	NT2RM2001698,

	NT2RM2001700,	NT2RM2001730,	NT2RM2001782,	NT2RM2001803,	NT2RM2001886,	NT2RM2001935,
	NT2RM2001997,	NT2RM2002030,	NT2RM2002128,	NT2RM4000024,	NT2RM4000155,	NT2RM4000344,
	NT2RM4000471,	NT2RM4000616,	NT2RM4000657,	NT2RM4000712,	NT2RM4000820,	NT2RM4001313,
	NT2RM4001316,	NT2RM4001444,	NT2RM4001592,	NT2RM4001758,	NT2RM4001819,	NT2RM4001880,
5	NT2RM4002062,	NT2RM4002063,	NT2RM4002189,	NT2RM4002213,	NT2RM4002251,	NT2RM4002409,
	NT2RM4002532,	NT2RM4002623,	NT2RP1000376,	NT2RP1000443,	NT2RP1000522,	NT2RP1000834,
	NT2RP1000947,	NT2RP1001079,	NT2RP1001185,	NT2RP1001253,	NT2RP1001361,	NT2RP1001543,
	NT2RP2000056,	NT2RP2000114,	NT2RP2000183,	NT2RP2000248,	NT2RP2000329,	NT2RP2000422,
	NT2RP2000448,	NT2RP2000668,	NT2RP2000710,	NT2RP2000816,	NT2RP2001070,	NT2RP2001392,
10	NT2RP2001601,	NT2RP2001663,	NT2RP2001740,	NT2RP2001748,	NT2RP2001898,	NT2RP2002124,
	NT2RP2002256,	NT2RP2002609,	NT2RP2002618,	NT2RP2002959,	NT2RP2002993,	NT2RP2003230,
	NT2RP2003286,	NT2RP2003401,	NT2RP2003506,	NT2RP2003543,	NT2RP2003643,	NT2RP2003702,
	NT2RP2003704,	NT2RP2003713,	NT2RP2003737,	NT2RP2003840,	NT2RP2003912,	NT2RP2003952,
	NT2RP2004098,	NT2RP2004239,	NT2RP2004245,	NT2RP2004768,	NT2RP2004791,	NT2RP2004799,
15	NT2RP2004933,	NT2RP2005038,	NT2RP2005139,	NT2RP2005162,	NT2RP2005204,	NT2RP2005239,
	NT2RP2005276,	NT2RP2005344,	NT2RP2005360,	NT2RP2005457,	NT2RP2005498,	NT2RP2005549,
	NT2RP2005557,	NT2RP2005605,	NT2RP2005635,	NT2RP2005723,	NT2RP2005773,	NT2RP2005775,
	NT2RP2005776,	NT2RP2005784,	NT2RP2005835,	NT2RP2005942,	NT2RP2006534,	NT2RP2006571,
	NT2RP2006573,	NT2RP3000031,	NT2RP3000085,	NT2RP3000207,	NT2RP3000359,	NT2RP3000578,
20	NT2RP3000742,	NT2RP3000845,	NT2RP3000875,	NT2RP3000917,	NT2RP3001055,	NT2RP3001221,
	NT2RP3001495,	NT2RP3001898,	NT2RP3001938,	NT2RP3002303,	NT2RP3002351,	NT2RP3002501,
	NT2RP3002602,	NT2RP3002628,	NT2RP3002663,	NT2RP3003301,	NT2RP3003385,	NT2RP3003490,
	NT2RP3003659,	NT2RP3003825,	NT2RP3003831,	NT2RP3003846,	NT2RP3003914,	NT2RP3004148,
	NT2RP3004209,	NT2RP3004378,	NT2RP3004669,	NT2RP3004670,	NT2RP4000259,	NT2RP4000312,
25	NT2RP4000367,	NT2RP4000417,	NT2RP4000457,	NT2RP4000657,	NT2RP4000817,	NT2RP4000855,
	NT2RP4000879,	NT2RP4000927,	NT2RP4000973,	NT2RP4000997,	NT2RP4001041,	NT2RP4001079,
	NT2RP4001095,	NT2RP4001143,	NT2RP4001219,	NT2RP4001375,	NT2RP4001389,	NT2RP4001483,
	NT2RP4001555,	NT2RP4001592,	NT2RP4001644,	NT2RP4001730,	NT2RP4001946,	NT2RP4002408,
	NT2RP5003500,	NT2RP5003522,	OVARC1000013,	OVARC1000060,	OVARC1000139,	OVARC1000288,
30	OVARC1000309,	OVARC1000473,	OVARC1000556,	OVARC1000682,	OVARC1000722,	OVARC1000751,
	OVARC1000885,	OVARC1000915,	OVARC1001107,	OVARC1001713,	OVARC1001762,	OVARC1001809,
	OVARC1001942,	OVARC1002156,	OVARC1002165,	PLACE1000007,	PLACE1000142,	PLACE1000185,
	PLACE1000213,	PLACE1000383,	PLACE1000420,	PLACE1000547,	PLACE1000653,	PLACE1000755,
	PLACE1001054,	PLACE1001062,	PLACE1001672,	PLACE1001692,	PLACE1001748,	PLACE1001781,
35	PLACE1001817,	PLACE1001869,	PLACE1001989,	PLACE1002073,	PLACE1002598,	PLACE1002908,
	PLACE1002991,	PLACE1003174,	PLACE1003176,	PLACE1003709,	PLACE1003885,	PLACE1003888,
	PLACE1003903,	PLACE1003915,	PLACE1004270,	PLACE1004428,	PLACE1004437,	PLACE1004751,
	PLACE1004804,	PLACE1004918,	PLACE1005243,	PLACE1005305,	PLACE1005373,	PLACE1005656,
	PLACE1005763,	PLACE1005804,	PLACE1005953,	PLACE1005955,	PLACE1006011,	PLACE1006469,
40	PLACE1006534,	PLACE1006626,	PLACE1006731,	PLACE1006819,	PLACE1006829,	PLACE1006878,
	PLACE1007226,	PLACE1007416,	PLACE1007649,	PLACE1007706,	PLACE1007729,	PLACE1007954,
	PLACE1007958,	PLACE1008111,	PLACE1008275,	PLACE1008330,	PLACE1008643,	PLACE1008904,
	PLACE1009130,	PLACE1009444,	PLACE1009763,	PLACE1009861,	PLACE1009992,	PLACE1009997,
	PLACE1010096,	PLACE1010362,	PLACE1010481,	PLACE1010662,	PLACE1011046,	PLACE1011219,
45	PLACE1011229,	PLACE1011332,	PLACE1011635,	PLACE1011923,	PLACE2000021,	PLACE2000034,
	PLACE2000398,	PLACE2000404,	PLACE2000438,	PLACE3000009,	PLACE3000020,	PLACE3000059,
	PLACE3000147,	PLACE3000339,	PLACE3000350,	PLACE4000063,	PLACE4000100,	PLACE4000401,
	PLACE4000548,	PLACE4000654,	SKNMC1000050,	THYRO1000072,	THYRO1000197,	THYRO1000288,
	THYRO1000605,	THYRO1000662,	THYRO1000756,	THYRO1000852,	THYRO1000926,	THYRO1000934,
50	THYRO1000951,	THYRO1000983,	THYRO1001003,	THYRO1001287,	THYRO1001374,	THYRO1001406,
	THYRO1001617,	THYRO1001671,	THYRO1001738,	Y79AA1000782,	Y79AA1001048,	Y79AA1001233,
	Y79AA1001394,	Y79AA1001493,	Y79AA1001548,	Y79AA1001581,	Y79AA1001603,	Y79AA1001827,
	Y79AA1002027,	Y79AA1002209,	Y79AA1002211,	Y79AA1002361,	Y79AA1002416,	HEMBA1005732,
	MAMMA1000402,					
55	[0067] The following 217 clones presumably belong to ATP- and/or GTP-binding proteins.					
	HEMBA1000012,	HEMBA1000129,	HEMBA1000185,	HEMBA1000491,	HEMBA1000531,	HEMBA1001019,
	HEMBA1001174,	HEMBA1001387,	HEMBA1001595,	HEMBA1001723,	HEMBA1001913,	HEMBA1002161,
	HEMBA1002212,	HEMBA1002876,	HEMBA1002997,	HEMBA1003250,	HEMBA1003291,	HEMBA1003369,

	HEMBA1003555, HEMBA1004697, HEMBB1000226, MAMMA1000085, MAMMA1001768, NT2RM1000924, NT2RM2001345, NT2RM4000496, NT2RM4001344, NT2RM4002062, NT2RP1000470, NT2RP1001569, NT2RP2000710, NT2RP2003277, NT2RP2004689, NT2RP2005763, NT2RP3000366, NT2RP3001427, NT2RP3001938, NT2RP3003031, NT2RP3003031, NT2RP3004428, NT2RP4000839, NT2RP4001592, NT2RP4002058, OVARC1000771, OVARC1001104, OVARC1003521, OVARC1005739, OVARC1007409, OVARC1009596, OVARC1011114, OVARC1020044, SKNMC1000013, Y79AA1001875, Y79AA1001963, Y79AA1002209,	HEMBA1003560, HEMBA1005047, HEMBB1000264, MAMMA1000612, MAMMA1003127, NT2RM2000469, NT2RM2001823, NT2RM4000611, NT2RM4001444, NT2RM4002174, NT2RP1000478, NT2RP2000126, NT2RP2000812, NT2RP2003912, NT2RP2004768, NT2RP2006534, NT2RP3000397, NT2RP3001453, NT2RP3002007, NT2RP3003353, NT2RP3004578, NT2RP4000929, NT2RP4001634, NT2RP4002048, OVARC1000800, OVARC1001739, OVARC1002935, OVARC1003684, HEMBA1004479, HEMBA1005931, HEMBA1006278, HEMBB1000789, HEMBB1002134, MAMMA1001260, MAMMA1002937, NT2RM1000885, NT2RM2000624, NT2RM2001771, NT2RM2002091, NT2RM4000290, NT2RM4001200, NT2RM4001597, NT2RP1000033, NT2RP1000915, NT2RP2000076, NT2RP2000297, NT2RP2001869,	HEMBA1004131, HEMBA1005595, HEMBB1000632, MAMMA1000731, NT2RM1000187, NT2RM2000577, NT2RM2002128, NT2RM4000733, NT2RM4001592, NT2RM4002205, NT2RP1000915, NT2RP2000258, NT2RP2000880, NT2RP2004538, NT2RP2004791, NT2RP3000046, NT2RP3000759, NT2RP3001529, NT2RP3002151, NT2RP3003589, NT2RP4000290, NT2RP4001041, NT2RP4001644, NT2RP5003477, OVARC1001068, OVARC1002433, OVARC1004902, OVARC1006119, OVARC1007946, OVARC1010134, OVARC1011922, OVARC10300350, THYRO1001458, THYRO1001458, Y79AA1000833, Y79AA1000962,	HEMBA1004199, HEMBA1007018, HEMBB1000725, MAMMA1000738, NT2RM1000388, NT2RM2000740, NT2RM4000155, NT2RM4000820, NT2RM4001714, NT2RM4002527, NT2RP1000958, NT2RP2000329, NT2RP2001245, NT2RP2004920, NT2RP3000252, NT2RP3000845, NT2RP3001730, NT2RP3002330, NT2RP3003809, NT2RP4000481, NT2RP4001079, NT2RP4001656, OVARC1000013, OVARC1002138, OVARC1002437, OVARC1005243, OVARC1006196, OVARC1008244, OVARC1010720, OVARC10200014, OVARC10400009, Y79AA1000833, Y79AA1000962,	HEMBA1004202, HEMBA1007151, HEMBB1001294, MAMMA1001038, NT2RM1000702, NT2RM2001100, NT2RM4000191, NT2RM4001084, NT2RM4001758, NT2RM4002594, NT2RP1001080, NT2RP2000660, NT2RP2001392, NT2RP2005344, NT2RP3000350, NT2RP3000875, NT2RP3001799, NT2RP3002399, NT2RP3003876, NT2RP4000518, NT2RP4001375, NT2RP4001896, OVARC1000304, OVARC1000588, OVARC1002714, OVARC1005305, OVARC1006552, OVARC1009404, OVARC1010896, OVARC1020039, OVARC10400014, Y79AA1000962,	HEMBA1004354, HEMBB1000083, HEMBB1002193, MAMMA1001735, NT2RM1000772, NT2RM2001201, NT2RM4000356, NT2RM4001178, NT2RM4001880, NT2RM4002623, NT2RP1001410, NT2RP2000668, NT2RP2002606, NT2RP2005393, NT2RP3000359, NT2RP3001150, NT2RP3001857, NT2RP3002671, NT2RP3004189, NT2RP4000781, NT2RP4001414, NT2RP4002047, OVARC1000556, OVARC1000588, OVARC1003394, OVARC1005549, OVARC1008956, OVARC1009476, OVARC1011109, OVARC10200274, OVARC10400326, Y79AA1001394,
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[0068] The following 320 clones presumably belong to nuclear proteins.

	HEMBA1000005, HEMBA1001137, HEMBA1001824, HEMBA1002569, HEMBA1003662, HEMBA1004353, HEMBA1005931, HEMBB1000226, HEMBB1001915, MAMMA1001222, MAMMA1002869, NT2RM1000885, NT2RM2000624, NT2RM2001771, NT2RM2002091, NT2RM4000290, NT2RM4001200, NT2RM4001597, NT2RP1000033, NT2RP1000915, NT2RP2000076, NT2RP2000297, NT2RP2001869,	HEMBA1000158, HEMBA1001405, HEMBA1001847, HEMBA1002935, HEMBA1003684, HEMBA1004479, HEMBA1005931, HEMBA1006278, HEMBB1000789, HEMBB1002134, MAMMA1001260, MAMMA1002937, NT2RM1000885, NT2RM2000735, NT2RM2001823, NT2RM4000024, NT2RM4000531, NT2RM4001483, NT2RM4001566, NT2RM4001823, NT2RP1000493, NT2RP1000966, NT2RP2000153, NT2RP2000931, NT2RP2002079,	HEMBA1000216, HEMBA1001510, HEMBA1001869, HEMBA1002951, HEMBA1003690, HEMBA1004973, HEMBA1006283, HEMBA1001011, HEMBB1001056, MAMMA1000183, MAMMA1001743, NT2RM1000086, NT2RM1001059, NT2RM2000740, NT2RM2001936, NT2RM4000046, NT2RM4000751, NT2RM4000996, NT2RM4001592, NT2RM4001828, NT2RP1000574, NT2RP1001013, NT2RP2000161, NT2RP2001233, NT2RP2002503,	HEMBA1000561, HEMBA1001579, HEMBA1002177, HEMBA1002999, HEMBA1003760, HEMBA1005219, HEMBA1006359, HEMBA1001056, MAMMA1000183, MAMMA1001743, NT2RM1000086, NT2RM1001059, NT2RM2001105, NT2RM2001989, NT2RM4000104, NT2RM4000996, NT2RM4001858, NT2RP1000630, NT2RP1001177, NT2RP2000248, NT2RP2001420, NT2RP2002591,	HEMBA1001088, HEMBA1001819, HEMBA1002495, HEMBA1003545, HEMBA1004321, HEMBA1005558, HEMBA1007087, HEMBB1001482, MAMMA1001105, MAMMA1002617, NT2RM1000666, NT2RM2000588, NT2RM2001670, NT2RM2002088, NT2RM4000215, NT2RM4001140,
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	NT2RP2002939,	NT2RP2002993,	NT2RP2003137,	NT2RP2003157,	NT2RP2003277,	NT2RP2003286,
	NT2RP2003308,	NT2RP2003347,	NT2RP2003714,	NT2RP2003912,	NT2RP2004013,	NT2RP2004187,
	NT2RP2004689,	NT2RP2004920,	NT2RP2005393,	NT2RP2005436,	NT2RP2005496,	NT2RP2005539,
	NT2RP2005701,	NT2RP2005767,	NT2RP2005776,	NT2RP2005933,	NT2RP2005942,	NT2RP2006043,
5	NT2RP2006436,	NT2RP3000031,	NT2RP3000050,	NT2RP3000397,	NT2RP3000512,	NT2RP3000527,
	NT2RP3000590,	NT2RP3000603,	NT2RP3000632,	NT2RP3000917,	NT2RP3001057,	NT2RP3001107,
	NT2RP3001120,	NT2RP3001253,	NT2RP3001338,	NT2RP3001384,	NT2RP3001398,	NT2RP3001427,
	NT2RP3001428,	NT2RP3001472,	NT2RP3001646,	NT2RP3001671,	NT2RP3001792,	NT2RP3001855,
	NT2RP3002056,	NT2RP3002165,	NT2RP3002399,	NT2RP3002876,	NT2RP3003193,	NT2RP3003212,
10	NT2RP3003555,	NT2RP3004016,	NT2RP3004206,	NT2RP3004424,	NT2RP3004428,	NT2RP3004566,
	NT2RP3004617,	NT2RP4000078,	NT2RP4000111,	NT2RP4000210,	NT2RP4000398,	NT2RP4000481,
	NT2RP4000518,	NT2RP4000997,	NT2RP4001148,	NT2RP4001206,	NT2RP4001213,	NT2RP4001433,
	NT2RP4001568,	NT2RP4001638,	NT2RP4001696,	NT2RP4001753,	NT2RP4001938,	NT2RP4002058,
	NT2RP4002078,	NT2RP4002081,	NT2RP4002791,	OVARC1000006,	OVARC1000087,	OVARC1000091,
15	OVARC1000241,	OVARC1000326,	OVARC1000556,	OVARC1000846,	OVARC1001038,	OVARC1001180,
	OVARC1001232,	OVARC1001271,	OVARC1001306,	OVARC1001436,	OVARC1002112,	PLACE1000133,
	PLACE1000184,	PLACE1000406,	PLACE1000583,	PLACE1000596,	PLACE1000979,	PLACE1001118,
	PLACE1001383,	PLACE1001632,	PLACE1002171,	PLACE1002433,	PLACE1002438,	PLACE1002532,
	PLACE1002775,	PLACE1002816,	PLACE1002834,	PLACE1003100,	PLACE1003190,	PLACE1003302,
20	PLACE1003519,	PLACE1003521,	PLACE1003605,	PLACE1003704,	PLACE1003738,	PLACE1003885,
	PLACE1003923,	PLACE1004302,	PLACE1004471,	PLACE1004564,	PLACE1004814,	PLACE1004902,
	PLACE1005287,	PLACE1005876,	PLACE1005966,	PLACE1006167,	PLACE1006438,	PLACE1006482,
	PLACE1006829,	PLACE1006878,	PLACE1006917,	PLACE1007014,	PLACE1007547,	PLACE1007598,
	PLACE1007688,	PLACE1007969,	PLACE1008044,	PLACE1008132,	PLACE1008603,	PLACE1009099,
25	PLACE1009130,	PLACE1009308,	PLACE1009398,	PLACE1010134,	PLACE1010194,	PLACE1010702,
	PLACE1010720,	PLACE1010870,	PLACE1011056,	PLACE1011433,	PLACE1011664,	PLACE2000014,
	PLACE2000427,	PLACE3000009,	PLACE3000169,	PLACE4000014,	PLACE4000156,	PLACE4000192,
	PLACE4000261,	PLACE4000326,	PLACE4000489,	SKNMC1000011,	THYRO1000085,	THYRO1000242,
30	THYRO1000585,	THYRO1001100,	THYRO1001189,	THYRO1001809,	Y79AA1000037,	Y79AA1000214,
	Y79AA1000231,	Y79AA1000589,	Y79AA1000752,	Y79AA1001391,	Y79AA1001613,	Y79AA1001705,
	Y79AA1001963,	Y79AA1002431,	Y79AA1002472,	Y79AA1002482,		
[0069] The following 296 clones presumably belong to DNA- and/or RNA-binding proteins.						
	HEMBA1000216,	HEMBA1000561,	HEMBA1000591,	HEMBA1000851,	HEMBA1001088,	HEMBA1001137,
	HEMBA1001405,	HEMBA1001510,	HEMBA1001804,	HEMBA1001809,	HEMBA1001819,	HEMBA1001847,
35	HEMBA1001869,	HEMBA1002177,	HEMBA1002935,	HEMBA1003408,	HEMBA1003545,	HEMBA1003568,
	HEMBA1003591,	HEMBA1003662,	HEMBA1003684,	HEMBA1003760,	HEMBA1003783,	HEMBA1003805,
	HEMBA1003953,	HEMBA1004321,	HEMBA1004354,	HEMBA1004389,	HEMBA1004479,	HEMBA1004669,
	HEMBA1004847,	HEMBA1004973,	HEMBA1005202,	HEMBA1005359,	HEMBA1005931,	HEMBA1006248,
40	HEMBA1006278,	HEMBA1006283,	HEMBA1006359,	HEMBA1006652,	HEMBA1007087,	HEMBA1007194,
	HEMBA1000264,	HEMBA1000789,	HEMBA1001011,	HEMBA1001482,	HEMBA1001736,	HEMBA1001749,
	HEMBA1001839,	HEMBA1002217,	MAMMA1000183,	MAMMA1000284,	MAMMA1000731,	MAMMA1001105,
	MAMMA1001222,	MAMMA1001260,	MAMMA1001743,	MAMMA1001837,	MAMMA1002385,	MAMMA1002617,
	MAMMA1002869,	MAMMA1002937,	MAMMA1003011,	NT2RM1000086,	NT2RM1000539,	NT2RM1000555,
	NT2RM1000666,	NT2RM1000691,	NT2RM1000626,	NT2RM1000885,	NT2RM1001059,	NT2RM1001092,
45	NT2RM2000371,	NT2RM2000624,	NT2RM2000735,	NT2RM2001105,	NT2RM2001424,	NT2RM2001575,
	NT2RM2001605,	NT2RM2001670,	NT2RM2001771,	NT2RM2001823,	NT2RM2001989,	NT2RM2002004,
	NT2RM2002014,	NT2RM2002088,	NT2RM2002091,	NT2RM4000046,	NT2RM4000104,	NT2RM4000167,
	NT2RM4000191,	NT2RM4000202,	NT2RM4000531,	NT2RM4000595,	NT2RM4000733,	NT2RM4000751,
	NT2RM4000996,	NT2RM4001092,	NT2RM4001140,			
50	NT2RM4001178,	NT2RM4001200,	NT2RM4001483,	NT2RM4001592,	NT2RM4001783,	NT2RM4001823,
	NT2RM4001826,	NT2RM4001858,	NT2RM4001880,	NT2RM4001979,	NT2RM4002093,	NT2RM4002109,
	NT2RP1000470,	NT2RP1000493,	NT2RP1000574,	NT2RP1000902,	NT2RP1000966,	NT2RP1001013,
	NT2RP1001073,	NT2RP1001080,	NT2RP2000008,	NT2RP2000153,	NT2RP2000258,	NT2RP2000297,
	NT2RP2001127,	NT2RP2001174,	NT2RP2001233,	NT2RP2001511,	NT2RP2001756,	NT2RP2001869,
55	NT2RP2002079,	NT2RP2002099,	NT2RP2002053,	NT2RP2002591,	NT2RP2002939,	NT2RP2003157,
	NT2RP2003329,	NT2RP2003347,	NT2RP2003480,	NT2RP2003522,	NT2RP2003564,	NT2RP2003714,
	NT2RP2004187,	NT2RP2004568,	NT2RP2004920,	NT2RP2005003,	NT2RP2005139,	NT2RP2005168,
	NT2RP2005436,	NT2RP2005496,	NT2RP2005701,	NT2RP2005763,	NT2RP2005776,	NT2RP2005942,

	NT2RP2006043,	NT2RP2006436,	NT2RP2006464,	NT2RP3000050,	NT2RP30000512,	NT2RP3000527,
	NT2RP3000562,	NT2RP3000590,	NT2RP3000603,	NT2RP3000624,	NT2RP3000632,	NT2RP3000994,
	NT2RP3001057,	NT2RP3001107,	NT2RP3001120,	NT2RP3001150,	NT2RP3001155,	NT2RP3001138,
	NT2RP3001398,	NT2RP3001472,	NT2RP3001672,	NT2RP3001688,	NT2RP3001724,	NT2RP3001792,
5	NT2RP3001855,	NT2RP3002165,	NT2RP3002399,	NT2RP3002876,	NT2RP3003138,	NT2RP3003193,
	NT2RP3003251,	NT2RP3003327,	NT2RP3003555,	NT2RP3004013,	NT2RP3004078,	NT2RP3004428,
	NT2RP3004490,	NT2RP3004566,	NT2RP3004594,	NT2RP3004617,	NT2RP3004618,	NT2RP4000111,
	NT2RP4000398,	NT2RP4000455,	NT2RP4000518,	NT2RP4000648,	NT2RP4000865,	NT2RP4000929,
	NT2RP4001080,	NT2RP4001095,	NT2RP4001213,	NT2RP4001433,	NT2RP4001568,	NT2RP4001696,
10	NT2RP4001753,	NT2RP4001838,	NT2RP4001938,	NT2RP4002078,	OVARC1000006,	OVARC1000087,
	OVARC1000241,	OVARC1000746,	OVARC1000846,	OVARC1001232,	OVARC1001271,	OVARC1001306,
	OVARC1001987,	OVARC1002112,	PLACE1000406,	PLACE1000583,	PLACE1000979,	PLACE1001118,
	PLACE1001632,	PLACE1001739,	PLACE1002438,	PLACE1002532,	PLACE1002775,	PLACE1002834,
	PLACE1003302,	PLACE1003519,	PLACE1003605,	PLACE1003704,	PLACE1003738,	PLACE1003885,
15	PLACE1004471,	PLACE1004564,	PLACE1004814,	PLACE1005584,	PLACE1005876,	PLACE1005951,
	PLACE1006196,	PLACE1006482,	PLACE1006488,	PLACE1006531,	PLACE1006917,	PLACE1007346,
	PLACE1007547,	PLACE1007598,	PLACE1007688,	PLACE1007969,	PLACE1008132,	PLACE1008999,
	PLACE1009246,	PLACE1009398,	PLACE1009476,	PLACE1009622,	PLACE1010053,	PLACE1010194,
	PLACE1010702,	PLACE1010870,	PLACE1011056,	PLACE1011114,	PLACE1011433,	PLACE2000427,
20	PLACE3000009,	PLACE3000169,	PLACE4000014,	PLACE4000156,	PLACE4000192,	PLACE4000261,
	PLACE4000489,	SKNMC1000091,	THYRO 1000085,	THYRO1000242,	THYRO1000501,	THYRO1001100,
	THYRO1001189,	THYRO1001809,	Y79AA1000037,	Y79AA1000349,	Y79AA1000752,	Y79AA1001211,
	Y79AA1001312,	Y79AA1001391,	Y79AA1001613,	Y79AA1002103,	Y79AA1002472,	Y79AA1002482,
	HEMBA1004596,	OVARC1000148,	PLACE1003334,	THYRO1001661,		
25	[0070] The following 66 clones presumably belong to the category of RNA synthesis-associated proteins.					
	HEMBA1000591,	HEMBA1001579,	HEMBA1003179,	HEMBA1003591,	HEMBA1006278,	HEMBA1000226,
	NT2RM1000187,	NT2RM1000852,	NT2RM2000624,	NT2RM2001989,	NT2RM2002100,	NT2RM4000191,
	NT2RM4001178,	NT2RM4002093,	NT2RP1000035,	NT2RP1000272,	NT2RP1000470,	NT2RP1001080,
	NT2RP2000153,	NT2RP2002928,	NT2RP2003157,	NT2RP2004568,	NT2RP2005126,	NT2RP2005436,
30	NT2RP2005399,	NT2RP2005605,	NT2RP2005776,	NT2RP2005942,	NT2RP2006043,	NT2RP2006238,
	NT2RP3000361,	NT2RP3000397,	NT2RP3001671,	NT2RP3004504,	NT2RP4000078,	NT2RP4000111,
	NT2RP4000481,	NT2RP4000518,	NT2RP4000614,	NT2RP4000929,	NT2RP4001696,	NT2RP4002058,
	OVARC1001232,	OVARC1001577,	PLACE1000406,	PLACE1000596,	PLACE1000755,	PLACE1001739,
	PLACE1003704,	PLACE1003885,	PLACE1004564,	PLACE1004814,	PLACE1004902,	PLACE1005373,
35	PLACE1005646,	PLACE1005876,	PLACE1006196,	PLACE1006626,	PLACE1006878,	PLACE1006917,
	PLACE1009476,	PLACE1009925,	PLACE1010194,	PLACE1011114,	THYRO1000121,	Y79AA1001963,
	[0071] The following 184 clones presumably belong to protein synthesis- and/or protein transport-associated proteins.					
	HEMBA1000012,	HEMBA1000141,	HEMBA1000592,	HEMBA1003617,	HEMBA1003773,	HEMBA1004202,
40	HEMBA1004276,	HEMBA1004734,	HEMBA1004847,	HEMBA1004929,	HEMBA1004930,	HEMBA1005047,
	HEMBA1005022,	HEMBA1006031,	HEMBA1006272,	HEMBA1006474,	HEMBA1006652,	HEMBA1006914,
	HEMBA1006973,	HEMBA1007224,	HEMBA1000915,	HEMBA1001112,	HEMBA1001137,	HEMBA1001736,
	HEMBA1001831,	HEMBA1001915,	MAMMA1000085,	MAMMA1000734,	MAMMA1001008,	MAMMA1002170,
	MAMMA1002219,	MAMMA1002236,	MAMMA1002619,	NT2RM1000661,	NT2RM1000833,	NT2RM2000092,
45	NT2RM2000504,	NT2RM2000577,	NT2RM2000821,	NT2RM2001201,	NT2RM2001592,	NT2RM2001613,
	NT2RM2001648,	NT2RM2001730,	NT2RM2001760,	NT2RM2002055,	NT2RM4000155,	NT2RM4000169,
	NT2RM4000344,	NT2RM4000356,	NT2RM4000421,	NT2RM4000712,	NT2RM4001054,	NT2RM4001203,
	NT2RM4001382,	NT2RM4001444,	NT2RM4002062,	NT2RM4002205,	NT2RM4002623,	NT2RP1000326,
	NT2RP1000522,	NT2RP1000547,	NT2RP1000746,	NT2RP1000947,	NT2RP1001569,	NT2RP2000147,
50	NT2RP2000710,	NT2RP2000880,	NT2RP2000943,	NT2RP2001290,	NT2RP2001392,	NT2RP2001601,
	NT2RP2001613,	NT2RP2001660,	NT2RP2001740,	NT2RP2002124,	NT2RP2002606,	NT2RP2002862,
	NT2RP2002959,	NT2RP2002980,	NT2RP2003137,	NT2RP2003158,	NT2RP2003391,	NT2RP2003394,
	NT2RP2003401,	NT2RP2003433,	NT2RP2003704,	NT2RP2003713,	NT2RP2003737,	NT2RP2003760,
	NT2RP2003981,	NT2RP2004366,	NT2RP2004389,	NT2RP2004791,	NT2RP2005012,	NT2RP2005116,
55	NT2RP2005360,	NT2RP2005763,	NT2RP2005784,	NT2RP3000366,		
	NT2RP3000759,	NT2RP3000968,	NT2RP3001113,	NT2RP3001690,	NT2RP3002045,	NT2RP3002151,
	NT2RP3002529,	NT2RP3002671,	NT2RP3003301,	NT2RP3003846,	NT2RP3003876,	NT2RP3004209,
	NT2RP4000370,	NT2RP4000457,	NT2RP4000879,	NT2RP4000927,	NT2RP4001041,	NT2RP4001117,



	NT2RP4001313, OVARC1000085, OVARC1001180, PLACE1000863, PLACE1004104, PLACE1006488, PLACE1008790, PLACE1009845, PLACE1012031, PLACE1010011, Y79AA1000968, Y79AA1001493, Y79AA1001875, Y79AA1002027, Y79AA1002209, HEMBA1006284,	NT2RP4001315, OVARC1000465, OVARC1001342, PLACE1000007, PLACE1001092, PLACE1004270, PLACE1006829, PLACE1008813, PLACE1010074, PLACE2000404, THYRO1000983, THYRO1001003, THYRO1001313, Y79AA1000560, Y79AA1000784,	NT2RP4001574, OVARC1000564, PLACE1000007, PLACE1001748, PLACE1004743, PLACE1007706, PLACE1009094, PLACE1010547, PLACE3000059, THYRO1001003, THYRO1001313, Y79AA1000560, Y79AA1000784,	OVARC1000771, OVARC1000862, PLACE1000061, PLACE1002090, PLACE1005557, PLACE1007729, PLACE1009130, PLACE1011109, PLACE3000121, THYRO1001313, Y79AA1000560, Y79AA1000784,	OVARC1000071, OVARC1001171, PLACE1000042, PLACE1003915, PLACE1006170, PLACE1008402, PLACE1009721, PLACE1011477, PLACE4000654, Y79AA1000784,
5					
10					
	<b>[0072]</b> The following 130 clones presumably belong to cytoskeleton-associated proteins.				
	HEMBA1000156, HEMBA1000161, HEMBA1000168, HEMBA1000216, HEMBA1000239, HEMBA1000492, HEMBA1000497, HEMBA1000559, HEMBA1006344, HEMBA1006737, HEMBB1001175, HEMBB1001282, HEMBB1001562, HEMBB1001802, MAMMA1000824, MAMMA1001041, MAMMA1001576, MAMMA1001679, MAMMA1001735, MAMMA1002297, MAMMA1002351, MAMMA1002622, MAMMA1002637, MAMMA1003127, NT2RM1000850, NT2RM1000896, NT2RM2000300, NT2RM2000260, NT2RM2000691, NT2RM2001324, NT2RM4000169, NT2RM4000229, NT2RM4000515, NT2RM4001217, NT2RP1000202, NT2RP1000348, NT2RP1000460, NT2RP1000478, NT2RP1000784, NT2RP1001033, NT2RP1001294, NT2RP2000070, NT2RP2000070, NT2RP2000812, NT2RP2000814, NT2RP2001168, NT2RP2001245, NT2RP2001634, NT2RP2001900, NT2RP2003307, NT2RP2003394, NT2RP2004041, NT2RP2004242, NT2RP2004538, NT2RP2004587, NT2RP2004681, NT2RP2004732, NT2RP2004978, NT2RP2005491, NT2RP2005531, NT2RP2005712, NT2RP2006275, NT2RP3000753, NT2RP3001113, NT2RP3001216, NT2RP3001239, NT2RP3001272, NT2RP3001554, NT2RP3001690, NT2RP3001799, NT2RP3002688, NT2RP3003061, NT2RP3003185, NT2RP3003230, NT2RP3004569, NT2RP3004578, NT2RP4001004, NT2RP4001086, NT2RP4001256, NT2RP4001567, NT2RP4001927, OVARC1000001, OVARC1000106, OVARC1000437, OVARC1000520, OVARC1000679, OVARC1001731, OVARC1002050, PLACE1001104, PLACE1002571, PLACE1002591, PLACE1002655, PLACE1002714, PLACE1003625, PLACE1005287, PLACE1006552, PLACE1007946, PLACE1008426, PLACE1010148, PLACE1010547, PLACE1010743, PLACE1010896, PLACE1010960, PLACE1011310, PLACE1011922, PLACE2000216, PLACE2000274, PLACE2000371, PLACE2000458, PLACE3000145, PLACE3000416, PLACE4000009, THYRO1000132, THYRO1001405, THYRO1001458, Y79AA1000368, Y79AA1000794, Y79AA1000833, Y79AA1000962, Y79AA1002208,				
35					
	<b>[0073]</b> The following 54 clones presumably belong to cell division-associated and/or cell proliferation-associated proteins.				
	HEMBA1001019, HEMBA1001595, HEMBA1002363, HEMBA1002997, HEMBA1003136, HEMBA1003369, HEMBA1004131, HEMBA1004354, HEMBA1005621, HEMBB1000037, HEMBB1000264, MAMMA1001768, MAMMA1002769, NT2RM1000354, NT2RM1000430, NT2RM1000874, NT2RM2001256, NT2RM2001743, NT2RM2001896, NT2RM2002145, NT2RM4000215, NT2RM4001714, NT2RP1000163, NT2RP1000333, NT2RP1000439, NT2RP2000346, NT2RP2001397, NT2RP2002595, NT2RP2003177, NT2RP2003596, NT2RP2003912, NT2RP2004396, NT2RP2005037, NT2RP2005520, NT2RP2005669, NT2RP2005835, NT2RP3001730, NT2RP3002081, NT2RP4000210, NT2RP4000415, NT2RP4001414, NT2RP4001634, OVARC1000013, OVARC1000937, PLACE1001383, PLACE1002433, PLACE1004316, PLACE1005287, PLACE1008808, PLACE1010720, PLACE1010833, Y79AA1000748, Y79AA1001236, Y79AA1001394				
45					
	<b>[0074]</b> The following 36 clones presumably belong to the category of embryogenesis- and/or development-associated proteins:				
	HEMBA1000518, HEMBA1001847, HEMBA1001869, HEMBA1003545, HEMBA1004973, HEMBB1002442, MAMMA1001837, NT2RM2001670, NT2RM4000046, NT2RM4000531, NT2RM4001140, NT2RM4001858, NT2RP2002078, NT2RP2004187, NT2RP2006436, NT2RP3000603, NT2RP3000994, NT2RP3001580, NT2RP3001708, NT2RP3003071, NT2RP3004472, NT2RP3004617, NT2RP4000246, NT2RP4001567, OVARC1000304, OVARC1000746, PLACE1000793, PLACE1002532, PLACE1003258, PLACE1003625, PLACE1004460, PLACE1009622, PLACE4000558, THYRO1000085, Y79AA1001391, Y79AA1001692				
50					
	<b>[0075]</b> The following 30 clones presumably belong to cellular defense-associated proteins.				
	HEMBA1000005, HEMBA1000531, HEMBA1003417, HEMBA1006253, NT2RM4000354, NT2RM4001880, NT2RP1000333, NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2000809, NT2RP2001536, NT2RP2002464, NT2RP2004920, NT2RP2005037, NT2RP3000590, NT2RP3001426, NT2RP3002062, NT2RP3002785, NT2RP3004262, NT2RP4001555, NT2RP4001638, PLACE1006958, PLACE1008275,				
55					

PLACE1009113, PLACE1011858, PLACE4000014, THYRO1000684, Y79AA1002139, Y79AA1002229

**[0076]** Although it is unclear whether or not 261 clones out of clones other than the above-mentioned clones belong to any of the above-described categories, these clones are predicted to have some functions, based on the homology search using their full-length sequences.

5	HEMBA1000030,	HEMBA1000307,	HEMBA1000333,	HEMBA1000488,	HEMBA1000523,	HEMBA1001197,
	HEMBA1001302,	HEMBA1001455,	HEMBA1001675,	HEMBA1001714,	HEMBA1001744,	HEMBA1001967,
	HEMBA1002151,	HEMBA1002215,	HEMBA1002458,	HEMBA1002777,	HEMBA1003098,	HEMBA1003199,
	HEMBA1003615,	HEMBA1003836,	HEMBA1004295,	HEMBA1004573,	HEMBA1004604,	HEMBA1004795,
	HEMBA1005101,	HEMBA1005201,	HEMBA1005206,	HEMBA1005530,	HEMBA1005666,	HEMBA1005990,
10	HEMBA1006268,	HEMBA1006398,	HEMBA1006445,	HEMBA1007174,	HEMBA1007251,	HEMBA1000036,
	HEMBA1000144,	HEMBA1000973,	HEMBA1001058,	HEMBA1001234,	HEMBA1001288,	HEMBA1001331,
	HEMBA1001384,	HEMBA1002266,	HEMBA1002510,	HEMBA1002705,	MAMMA1000055,	MAMMA1000625,
	MAMMA1001075,	MAMMA1001181,	MAMMA1001259,	MAMMA1001730,	MAMMA1002143,	MAMMA1002699,
	MAMMA1002972,	MAMMA1003113,	NT2RM1000118,	NT2RM1000186,	NT2RM1000244,	NT2RM1000421,
15	NT2RM1000499,	NT2RM1000623,	NT2RM1000883,	NT2RM2000502,	NT2RM2000599,	NT2RM2000718,
	NT2RM2001065,	NT2RM2001196,	NT2RM2001983,	NT2RM2002109,	NT2RM2002142,	NT2RM4000030,
	NT2RM4000139,	NT2RM4000156,	NT2RM4000386,	NT2RM4000590,	NT2RM4001047,	NT2RM4001155,
	NT2RM4001256,	NT2RM4001320,	NT2RM4001340,	NT2RM4001347,	NT2RM4001371,	NT2RM4001582,
	NT2RM4001611,	NT2RM4001731,	NT2RM4001969,	NT2RM4002034,	NT2RM4002075,	NT2RM4002226,
20	NT2RP1000040,	NT2RP1000363,	NT2RP1000481,	NT2RP1000513,	NT2RP1000733,	NT2RP1000860,
	NT2RP1000954,	NT2RP1001011,	NT2RP1001395,	NT2RP1001457,		
	NT2RP1001494,	NT2RP2000054,	NT2RP2000067,	NT2RP2000133,	NT2RP2000157,	NT2RP2000764,
	NT2RP2000965,	NT2RP2001839,	NT2RP2001883,	NT2RP2001976,	NT2RP2001985,	NT2RP2002185,
	NT2RP2002442,	NT2RP2002727,	NT2RP2002741,	NT2RP2002986,	NT2RP2003121,	NT2RP2003265,
25	NT2RP2003272,	NT2RP2003857,	NT2RP2003871,	NT2RP2004425,	NT2RP2004476,	NT2RP2004710,
	NT2RP2004816,	NT2RP2005441,	NT2RP2005490,	NT2RP2005620,	NT2RP2005654,	NT2RP2005675,
	NT2RP2005753,	NT2RP2005841,	NT2RP2006598,	NT2RP3000047,	NT2RP3000233,	NT2RP3000868,
	NT2RP3000869,	NT2RP3001399,	NT2RP3001407,	NT2RP3001457,	NT2RP3001587,	NT2RP3001712,
	NT2RP3001819,	NT2RP3001854,	NT2RP3001931,	NT2RP3002273,	NT2RP3002631,	NT2RP3002682,
30	NT2RP3002770,	NT2RP3002818,	NT2RP3002948,	NT2RP3002972,	NT2RP3003032,	NT2RP3003290,
	NT2RP3003411,	NT2RP3003491,	NT2RP3003500,	NT2RP3003726,	NT2RP3004348,	NT2RP3004507,
	NT2RP4000129,	NT2RP4000498,	NT2RP4000528,	NT2RP4000737,	NT2RP4000979,	NT2RP4001010,
	NT2RP4001207,	NT2RP4001228,	NT2RP4001260,	NT2RP4001339,	NT2RP4001351,	NT2RP4001474,
	NT2RP4001966,	NT2RP4002018,	OVARC1000209,	OVARC1000876,	OVARC1001065,	OVARC1001092,
35	OVARC1001419,	OVARC1001555,	OVARC1001711,	OVARC1001943,	PLACE1000904,	PLACE1000066,
	PLACE1000610,	PLACE1000636,	PLACE1000769,	PLACE1000987,	PLACE1001036,	PLACE1001845,
	PLACE1001920,	PLACE1002665,	PLACE1003602,	PLACE1003611,	PLACE1004256,	PLACE1004550,
	PLACE1004868,	PLACE1004930,	PLACE1005052,	PLACE1005102,	PLACE1005176,	PLACE1005187,
	PLACE1005331,	PLACE1005727,	PLACE1006003,	PLACE1006335,	PLACE1006385,	PLACE1006506,
40	PLACE1007105,	PLACE1007537,	PLACE1007705,	PLACE1007791,	PLACE1007897,	PLACE1008080,
	PLACE1008368,	PLACE1008398,	PLACE1008465,	PLACE1008627,	PLACE1009020,	PLACE1009060,
	PLACE1009186,	PLACE1009443,	PLACE1009571,	PLACE1009670,	PLACE1010105,	PLACE1010261,
	PLACE1010310,	PLACE1010522,	PLACE1010579,	PLACE1010628,	PLACE1010661,	PLACE1010761,
	PLACE1011185,	PLACE1011340,	PLACE1011596,	PLACE2000246,	PLACE2000411,	PLACE3000477,
45	THYRO1000173,	THYRO1000401,	THYRO1000666,	THYRO1001033,	THYRO1001347,	THYRO1001656,
	THYRO1001703,	THYRO1001721,	Y79AA1000059,	Y79AA1000181,	Y79AA1000268,	Y79AA1000313,
	Y79AA1000540,	Y79AA1000966,	Y79AA1000985,	Y79AA1001323,	Y79AA1001402,	Y79AA1001679,
	Y79AA1001923,	Y79AA1002083,	Y79AA1002307,	Y79AA1002311,	Y79AA1002487,	

**[0077]** In some cases, the predicted functions based on the partial sequences are different from those based on the full-length sequences. The reason is that a protein does not always belong solely to a single category of the above-described functional categories, and therefore, a protein may belong to two or more of the predicted functional categories. Besides, additional functions can be found for the clones classified into these functional categories by further analyses.

**[0078]** Since the protein encoded by clones of the invention contains full-length amino acid sequence, it is possible to analyze its biological activity, and its effect on cellular conditions such as cell proliferation and differentiation by expressing the protein as a recombinant protein using an appropriate expression system, injecting the recombinant into the cell, or raising a specific antibody against the protein.

**[0079]** If the protein is a secretory protein, membrane protein, or protein associated with glycoprotein, signal trans-

duction, or transcription, its biological activity can be analyzed by the methods in "Gene Transcription" (Hames B.D., and Higgins S.J. edit, (1993)), "Glycobiology" (Fukuda M., and Kobata A. edit, (1993)), "Growth Factors" (McKay I., and Leigh I. edit, (1993)), "Extracellular Matrix" (Haralson M.A., and Hassell J.R. edit, (1995)), "Transcription Factors" (Lachman D.S. edit, (1993)), "Signal Transduction" (Milligans G. edit, (1992)), "Protein Phosphorylation" (Hardies G. D. edit, (1993)), and "Ion Channels" (Ashley R.H. edit, (1995)) featured in "The Practical Approach Series" (IRL PRESS), or "Signal Transduction Protocols" (Kendall D.A., and Hill S.J. edit, (1995)), "Glycoprotein Analysis in Biomedicine" (Hounsell E.F. edit, (1993)), featured in "Method in Molecular Biology" (Humana Press).

**[0080]** As to a protein associated with a disease, it is possible to perform a functional analysis as described above, but also possible to analyze correlation between the expression or the activity of the protein and a certain disease by using a specific antibody that is obtained by using expressed protein. Alternatively, it is possible to utilize the database Online Mendelian Inheritance in Man (OMIM) (<http://www.ncbi.nlm.nih.gov/Omim/>), which is a database of human genes and diseases, to analyze the protein.

New information is constantly being deposited in the OMIM database. Therefore, it is possible for one skilled in the art to find a new relationship between a particular disease and a gene of the present invention in the most up-to-date database.

**[0081]** Also, as for a secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., search of the OMIM with the following keywords resulted in the finding that the proteins are associated with many diseases (the result of the OMIM search for secrete and membrane proteins is shown below). Also, association between proteins associated to signal transduction or transcription and diseases is reported in "Transcription Factor Research-1999" (Fujii, Tamura, Kageyama, and Satake edit, (1999)) Jikken-Igaku Zoukan, Vol.17, No.3, and "Gene Medicine" ((1999) Vol.3, No.2). For example, in tumors, many proteins have been shown to play a role, including secretory proteins, membrane proteins, and proteins associated with signal transduction, glycoprotein, and transcription, and also proteins associated with metabolism, cytoskeleton, and cell cycle, as described in "Tumor Biology" (Matsubara S. (1992) Syoukabou Life Science series). Thus, besides the proteins associated with diseases, many proteins described above are also potentially associated with diseases, and thus useful as a target in the medicinal industry.

**[0082]** The result of the OMIM search for secretory and membrane proteins is shown below, in which the keywords,

- (1) secretion protein,
- (2) membrane protein,
- (3) channel, and
- (4) extracellular matrix were used.

**[0083]** Shown in the search result are only the accession numbers in the OMIM. Using the number, data showing the relationship between a disease and a gene or protein can be seen. The OMIM data has been renewed everyday.

#### 1) Secretion protein

268 entries found, searching for "secretion protein"

104760, 176860, 160900, 107400, 118910, 139320, 603850, 147572, 176880, 600946, 603215, 157147, 600174, 151675, 170280, 179512, 179513, 138120, 179509, 246700, 179510, 600626, 179511, 600998, 109270, 601489, 154545, 179490, 185860, 603216, 122559, 601746, 147290, 602672, 146770, 603062, 179508, 131230, 601591, 602421, 139250, 167805, 167770, 600041, 600564, 118825, 601146, 300090, 600753, 601652, 600759, 600768, 602434, 182590, 603166, 308230, 602534, 603489, 107470, 150390, 104610, 173120, 158106, 143890, 306900, 308700, 134797, 137350, 227500, 176300, 107730, 600760, 138079, 120180, 120160, 120150, 124092, 138160, 101000, 227600, 600509, 601199, 142410, 104311, 193400, 201910, 107300, 122560, 272800, 217000, 590050, 147670, 133170, 176730, 300300, 134370, 274600, 120140, 162151, 158070, 152790, 120120, 106100, 300200, 192340, 190160, 138040, 147470, 147620, 173350, 147380, 152200, 152760, 157145, 153450, 264080, 113811, 600937, 600840, 188545, 202110, 600514, 186590, 603372, 136435, 137241, 252800, 214500, 207750, 138850, 139191, 142640, 138130, 189907, 603692, 600633, 603355, 107270, 600377, 147892, 232200, 600281, 232800, 602358, 137035, 601771, 601769, 253200, 601933, 118444, 600270, 120700, 600945, 603732, 147660, 600761, 172400, 600823, 600877, 130080, 171060, 107740, 307800, 602843, 130660, 152780, 124020, 601124, 601340, 601604, 601610, 171050, 312060, 232700, 300159, 142703, 600734, 125255, 168450, 123812, 188540, 147940, 188450, 600839, 182452, 188400, 182280, 176760, 263200, 600264, 188826, 252650, 601185, 162641, 137216, 601398, 601538, 118888, 118445, 601745, 190180, 601922, 182098, 602008, 147440, 602384, 600031, 109160, 602663, 151670, 602682, 602730, 602779, 146880, 603061, 142704, 603140, 106150, 600732, 153620, 603318, 139392, 600042, 102200, 603493, 182100, 264300, 603795, 184600

#### 2) Membrane protein

1017 entries found, searching for "membrane protein"

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3) Channel (member of membrane protein)

272 entries found, searching for "channel"

176266, 600724, 170500, 182390, 123825, 114208, 114205, 601784, 114206, 600937, 114204, 603415, 600053, 114209, 114207, 600760, 118425, 601011, 192500, 176261, 600761, 176260, 600359, 600228, 600877, 602235, 300008, 182389, 182391, 601328, 601534, 600504, 602323, 601958, 602780, 602781, 601327, 601012, 600734, 603208, 182392, 603220, 603219, 603888, 600054, 602232, 601745, 603537, 602604, 603796, 302910, 602866, 601013, 602905, 602906, 600163, 152427, 180901, 600702, 600308, 602754, 107776, 602024, 134555, 601949, 600235, 602023, 176263, 600681, 176265, 193245, 603305, 176258, 602983, 601219, 601141, 176267, 602343, 602726, 138253, 176262, 600003, 600397, 602872, 138249, 600843, 600935, 600580, 600845, 602158, 602106, 176264, 300110, 176257, 602717, 603493, 176268, 600932, 602727, 138254, 603652, 300138, 602420, 600570, 600150, 603583, 602345, 603749, 601142, 176256, 600846, 138252, 602982, 603787, 602836, 603788, 602566, 603651, 602421, 100690, 107777, 100725, 100710, 600509, 603061, 154275, 304040, 154276, 180902, 121014, 602368, 139311, 601383, 108745, 601313, 601042, 600131, 186360, 600109, 600229, 601070, 603319, 601485, 118503, 180903, 602076, 124030, 601059, 601212, 601218, 147450, 600855, 600919, 601154, 601157, 171060, 600968, 182139, 131230, 121015, 600421, 113730, 249210, 310500, 600637, 125950, 118800, 156490, 602974, 104610, 121011, 602522, 118504, 300041, 160900, 601382, 602103, 600465, 602014, 600442, 601109, 602481, 277900, 254210, 138247, 164920, 170280, 171050, 128100, 173910, 600884, 123885, 602887, 600232, 180297, 137192, 600304, 138251, 603053, 300103, 603152, 603199, 118511, 118508, 138079, 600983, 182307, 603324, 305990, 603418, 114080, 232200, 600046, 600040, 602403, 603750, 603785, 104210, 600019, 600300, 182860, 603852, 603853, 603855, 1516060

4) Extracellular matrix

167 entries found, searching for "extracellular matrix"

603479, 602201, 601418, 601548, 154870, 115437, 602285, 602262, 602261, 134797, 600754, 120361, 116935, 602263, 603020, 601807, 603321, 185250, 185261, 253700, 128239, 120324, 193300, 276901, 308700, 600514, 600261, 602109, 120144, 120150, 147557, 193400, 600536, 188826, 120180, 118661, 120320, 152200, 135821, 112260, 230740, 602090, 155760, 192975, 190182, 602108, 601463, 186745, 600900, 600985, 600758, 602369, 179590, 601211, 600065, 602178, 600262, 182888, 182889, 151510, 182120, 150325, 190181, 150370, 186355, 193065, 165070, 154705, 147559, 146650, 146640, 153619, 175100, 187380, 231050, 188060, 135820, 156790, 130660, 301870, 128240, 600076, 600119, 193210, 600215, 600245, 121010, 150240, 600309, 600491, 222600, 120328, 600564, 600596, 600616, 600700, 600742, 120325, 138297, 600930, 156225, 601028, 601050, 601015, 253800, 601284, 601313, 120280, 310200, 601492, 120250, 601587, 601636, 601652, 601692, 601728, 120220, 601915, 602048, 155120, 310300, 120210, 120165, 120120, 118940, 116930, 602264, 116806, 602366, 120470, 602415, 602428, 602453, 602505, 602574, 603005, 603196, 603221, 603319, 107269, 216550, 103320, 603489, 603551, 603767, 603799, 603842

**[0084]** There are several methods for analyzing the expression levels of genes associated with diseases. Differences in gene expression levels between diseased and normal tissues are studied by the analytical methods, for example, Northern hybridization and differential display. Other examples include a method with high-density cDNA filter, a method with DNA microarray and methods with PCR amplification (Experimental Medicine, Vol. 17, No. 8, 980-1056 (1999); Cell Engineering (additional volume) DNA Microarray and Advanced PCR Methods, Muramatsu & Naba (eds.), Shun-jun-ya). The varying levels of gene expression between diseased tissues and normal tissues can be studied by any of these analytical methods. When explicit difference in the expression level is observed for a gene, it can be concluded that the gene is closely associated with a disease or disorder. Instead of diseased tissues, cultured cells can be used

for the assessment. Similarly, when gene expression is explicitly different between normal cells and cells reproducing disease-associated specific features, it can be concluded that the gene is closely associated with a disease or disorder. When the expression levels of genes are evidently varied during major cellular events (such as differentiation and apoptosis), the genes are involved in the cellular events and accordingly are candidates for disease- and/or disorder-associated genes. Further, genes exhibiting tissue-specific expression are genes playing important parts in the tissue functions and, therefore, can be candidates for genes associated with diseases and/or disorders affecting the tissues.

**[0085]** For example, non-enzymic protein glycation reaction is believed to be a cause for a variety of chronic diabetic complications. Accordingly, genes of which expression levels are elevated or decreased in a glycated protein-dependent manner in the endothelial cells, are associated with diabetic complications caused by glycated proteins (Diabetes 1996, 45 (Suppl. 3), S67-S72; Diabetes, 1997, 46 (Suppl. 2), S19-S25).

The onset of rheumatoid arthritis is thought to be involved in the proliferation of synovial cells covering inner surfaces of joint cavity and in inflammatory reaction resulted from the action of cytokines produced by leukocytes infiltrating into the joint synovial tissues (Rheumatism Information Center, <http://www.rheuma-net.or.jp/>). Recent studies have also revealed that tissue necrosis factor (TNF)- $\alpha$  participates in the onset (Current opinion in immunology 1999, 11, 657-662). When the expression of a gene exhibits responsiveness to the action of TNF on synovial cells, the gene is considered to be involved in rheumatoid arthritis. Many genes acting at the downstream of TNF- $\alpha$  and IL-1 $\beta$  among inflammation-associated cytokines have been previously identified. The respective stimulations are transduced through independent pathways of signaling cascade. There exists another signaling cascade for both stimulations, wherein NF- $\kappa$ B is a common transducing molecule shared by the two stimulations (J. Leukoc. Biol., 1994, 56(5): 542-547). It has also been revealed that many inflammation-associated genes, including IL-2, IL-6 and G-CSF, are varied in the expression levels thereof in response to the signal through the common pathway (Trend Genet. 1999, 15(6): 229-235). It is assumed that genes of which expression levels are varied in response to the stimulation of TNF- $\alpha$  or IL-1 $\beta$  also participate in inflammation.

**[0086]** Ultraviolet radiation damage has been recognized as a risk factor for skin cancers, etc. (United States Environmental Protection Agency: Ozone Depletion Home Page, <http://www.epa.gov/ozone/>). Genes of which expression levels are varied in skin epidermal cells exposed to ultraviolet rays are considered to be associated with ultraviolet radiation damage of skin. In addition, genes associated with neural differentiation can be candidates for genes responsible for neurological diseases as well as candidates for genes usable for treating the diseases.

**[0087]** Clones exhibiting differences in the expression levels thereof can be selected by using gene expression analysis. The selection comprises, for example; analyzing cDNA clones by using high-density cDNA filter; and statistically treating the multiple signal values (signal values of radioisotope in the labeled probes or values obtained by measuring fluorescence intensities emitted from the fluorescent labels) for the respective clones by two-sample t-test, where the signal values are determined by multiple experiments of hybridization. The clones of interest are selectable based on the statistically significant differences in the signal distribution at  $p < 0.05$ . However, selectable clones with significant difference in the expression levels thereof may be changed depending on the partial modification of statistical treatment. For example, the clones may be selected by conducting statistical treatment with two-sample t-test at  $p < 0.01$ ; or genes exhibiting more explicit differences in the expression levels thereof can be selected by performing statistical treatment with a pre-determined cut-off value for the significant signal difference. An alternative method is that the expression levels are simply compared with each other, and then, the clones of interest are selected based on the ratio of the expression levels thereof.

**[0088]** Clones that vary in their expression levels can also be selected by comparing the expression levels by PCR analysis, for example, by using the method of determining the band intensities representing the amounts of PCR products with ethidium bromide staining; the method of determining the values of radioisotope signals or fluorescence intensities of the PCR products when radiolabeled or fluorescent dye-labeled primers, respectively, are used in PCR amplification; or the method of determining the values of radioisotope signals or fluorescence intensities of the probes hybridized to the PCR products when radiolabeled or fluorescent dye-labeled probes, respectively, are used in the hybridization. If the expression level ratios obtained in multiple PCR experiments are constantly at least 2-fold, such a clone can be judged to vary in its expression level. When the ratios are several-fold or not less than 10-fold, the clone can be selected as a gene exhibiting the explicit difference in its expression level.

**[0089]** A survey of genes of which expression levels are varied specifically to the glycated protein in the endothelial cells has revealed genes with elevated expression levels, HEMBA1003958, HEMBA1004850, MAMMA1001256, MAMMA1002132, PLACE2000411 and PLACE3000119. On the other hand, a gene of which expression level is decreased specifically to the glycated protein is MAMMA1001783. These clones are genes associated with diabetes.

**[0090]** A survey of genes of which expression levels are varied in response to TNF- $\alpha$  (Tumor Necrosis Factor- $\alpha$ ) in the primary cell culture of synovial tissue has revealed the following clones with elevated expression levels in the presence of TNF- $\alpha$ .

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000046, HEMBA1000076, HEMBA1000111, HEMBA1000168, HEMBA1000185, HEMBA1000201, HEMBA1000231, HEMBA1000243, HEMBA1000280,

	HEMBA1000282,	HEMBA1000304,	HEMBA1000307,	HEMBA1000327,	HEMBA1000356,	HEMBA1000376,
	HEMBA1000387,	HEMBA1000390,	HEMBA1000418,	HEMBA1000460,	HEMBA1000491,	HEMBA1000501,
	HEMBA1000518,	HEMBA1000519,	HEMBA1000520,	HEMBA1000531,	HEMBA1000534,	HEMBA1000542,
	HEMBA1000545,	HEMBA1000591,	HEMBA1000592,	HEMBA1000594,	HEMBA1000636,	HEMBA1000655,
5	HEMBA1000657,	HEMBA1000673,	HEMBA1000682,	HEMBA1000686,	HEMBA1000722,	HEMBA1000726,
	HEMBA1000827,	HEMBA1000870,	HEMBA1000918,	HEMBA1000971,	HEMBA1000974,	HEMBA1000986,
	HEMBA1001019,	HEMBA1001043,	HEMBA1001051,	HEMBA1001059,	HEMBA1001060,	HEMBA1001071,
	HEMBA1001080,	HEMBA1001109,	HEMBA1001140,	HEMBA1001172,	HEMBA1001196,	HEMBA1001213,
	HEMBA1001226,	HEMBA1001281,	HEMBA1001299,	HEMBA1001302,	HEMBA1001303,	HEMBA1001323,
10	HEMBA1001326,	HEMBA1001327,	HEMBA1001330,	HEMBA1001351,	HEMBA1001407,	HEMBA1001411,
	HEMBA1001446,	HEMBA1001454,	HEMBA1001569,	HEMBA1001647,	HEMBA1001714,	HEMBA1001800,
	HEMBA1001804,	HEMBA1001809,	HEMBA1001888,	HEMBA1001912,	HEMBA1001921,	HEMBA1001967,
	HEMBA1002084,	HEMBA1002161,	HEMBA1002166,	HEMBA1002241,	HEMBA1002337,	HEMBA1002363,
	HEMBA1002389,	HEMBA1002458,	HEMBA1002460,	HEMBA1002469,	HEMBA1002538,	HEMBA1002542,
15	HEMBA1002547,	HEMBA1002609,	HEMBA1002624,			
	HEMBA1002659,	HEMBA1002750,	HEMBA1002770,	HEMBA1002779,	HEMBA1002810,	HEMBA1002816,
	HEMBA1002818,	HEMBA1002850,	HEMBA1002863,	HEMBA1003021,	HEMBA1003033,	HEMBA1003078,
	HEMBA1003166,	HEMBA1003202,	HEMBA1003204,	HEMBA1003229,	HEMBA1003235,	HEMBA1003276,
	HEMBA1003286,	HEMBA1003296,	HEMBA1003370,	HEMBA1003376,	HEMBA1003403,	HEMBA1003418,
20	HEMBA1003433,	HEMBA1003447,	HEMBA1003560,	HEMBA1003569,	HEMBA1003571,	HEMBA1003591,
	HEMBA1003597,	HEMBA1003598,	HEMBA1003621,	HEMBA1003656,	HEMBA1003662,	HEMBA1003690,
	HEMBA1003715,	HEMBA1003725,	HEMBA1003729,	HEMBA1003733,	HEMBA1003742,	HEMBA1003773,
	HEMBA1003783,	HEMBA1003950,	HEMBA1004012,	HEMBA1004015,	HEMBA1004048,	HEMBA1004074,
	HEMBA1004086,	HEMBA1004111,	HEMBA1004131,	HEMBA1004202,	HEMBA1004203,	HEMBA1004207,
25	HEMBA1004248,	HEMBA1004274,	HEMBA1004321,	HEMBA1004330,	HEMBA1004356,	HEMBA1004366,
	HEMBA1004405,	HEMBA1004408,	HEMBA1004429,	HEMBA1004499,	HEMBA1004507,	HEMBA1004509,
	HEMBA1004542,	HEMBA1004596,	HEMBA1004604,	HEMBA1004776,	HEMBA1004889,	HEMBA1004934,
	HEMBA1004978,	HEMBA1005019,	HEMBA1005047,	HEMBA1005206,	HEMBA1005219,	HEMBA1005274,
	HEMBA1005331,	HEMBA1005338,	HEMBA1005394,	HEMBA1005423,	HEMBA1005576,	HEMBA1005732,
30	HEMBA1005746,	HEMBA1006091,	HEMBA1006142,	HEMBA1006173,	HEMBA1006198,	HEMBA1006253,
	HEMBA1006268,	HEMBA1006309,	HEMBA1006377,	HEMBA1006474,	HEMBA1006486,	HEMBA1006492,
	HEMBA1006502,	HEMBA1006535,	HEMBA1006579,	HEMBA1006648,	HEMBA1006659,	HEMBA1006885,
	HEMBA1006929,	HEMBA1006941,	HEMBA1007078,	HEMBA1007080,	HEMBA1007121,	HEMBA1007194,
	HEMBA1007300,	HEMBA1007301,	HEMBA1007322,	HEMBA1000036,	HEMBA1000044,	HEMBA1000089,
35	HEMBA1000215,	HEMBA1000217,	HEMBA1000272,	HEMBA1000420,	HEMBA1000541,	HEMBA1000593,
	HEMBA1000631,	HEMBA1000835,	HEMBA1000887,	HEMBA1000908,	HEMBA1000975,	HEMBA1000985,
	HEMBA1001011,	HEMBA1001014,	HEMBA1001112,	HEMBA1001133,	HEMBA1001331,	HEMBA1001337,
	HEMBA1001366,	HEMBA1001367,	HEMBA1001384,	HEMBA1001394,	HEMBA1001429,	HEMBA1001463,
	HEMBA1001619,	HEMBA1001684,	HEMBA1001706,	HEMBA1001753,	HEMBA1001797,	HEMBA1001802,
40	HEMBA1001812,	HEMBA1001874,	HEMBA1001910,	HEMBA1001915,	HEMBA1001973,	HEMBA1001983,
	HEMBA1001990,	HEMBA1002190,	HEMBA1002193,	HEMBA1002249,	HEMBA1002329,	HEMBA1002342,
	HEMBA1002371,	HEMBA1002409,	HEMBA1002442,	HEMBA1002489,	HEMBA1002492,	HEMBA1002520,
	HEMBA1002534,	HEMBA1002596,	HEMBA1002664,	HEMBA1002692,	HEMBA1002697,	HEMBA1002705,
	MAMMA1000092,	MAMMA1000155,	MAMMA1000163,	MAMMA1000173,	MAMMA1000175,	MAMMA1000227,
45	MAMMA1000241,	MAMMA1000257,	MAMMA1000264,	MAMMA1000266,	MAMMA1000270,	MAMMA1000307,
	MAMMA1000410,	MAMMA1000413,	MAMMA1000416,	MAMMA1000421,	MAMMA1000472,	MAMMA1000501,
	MAMMA1000605,	MAMMA1000643,	MAMMA1000670,	MAMMA1000684,	MAMMA1000696,	MAMMA1000732,
	MAMMA1000752,	MAMMA1000802,	MAMMA1000824,	MAMMA1000905,	MAMMA1000921,	MAMMA1000931,
	MAMMA1000957,	MAMMA1000962,				
50	MAMMA1000998,	MAMMA1001008,	MAMMA1001050,	MAMMA1001074,	MAMMA1001078,	MAMMA1001292,
	MAMMA1001397,	MAMMA1001476,	MAMMA1001743,	MAMMA1001744,	MAMMA1001754,	MAMMA1001760,
	MAMMA1001785,	MAMMA1001858,	MAMMA1001908,	MAMMA1002236,	MAMMA1002267,	MAMMA1002292,
	MAMMA1002311,	MAMMA1002322,	MAMMA1002359,	MAMMA1002362,	MAMMA1002485,	MAMMA1002494,
	MAMMA1002597,	MAMMA1002598,	MAMMA1002665,	MAMMA1002671,	MAMMA1002684,	MAMMA1002748,
55	MAMMA1002775,	MAMMA1002830,	MAMMA1002858,	MAMMA1002868,	MAMMA1002886,	MAMMA1002887,
	MAMMA1002892,	MAMMA1002909,	MAMMA1002937,	MAMMA1002947,	MAMMA1002964,	MAMMA1002970,
	MAMMA1003013,	MAMMA1003150,	NT2RM1000039,	NT2RM1000062,	NT2RM1000080,	NT2RM1000086,
	NT2RM1000127,	NT2RM1000132,	NT2RM1000187,	NT2RM1000199,	NT2RM1000244,	NT2RM1000256,

	NT2RM1000272, NT2RM1000318, NT2RM1000354, NT2RM1000377, NT2RM1000430, NT2RM1000499,					
	NT2RM1000539, NT2RM1000553, NT2RM1000563, NT2RM1000699, NT2RM1000742, NT2RM1000826,					
	NT2RM1000829, NT2RM1000833, NT2RM1000882, NT2RM1000898, NT2RM1000905, NT2RM1001092,					
5	NT2RM2000013, NT2RM2000032, NT2RM2000042, NT2RM2000101, NT2RM2000124, NT2RM2000192,					
	NT2RM2000259, NT2RM2000260, NT2RM2000363, NT2RM2000368, NT2RM2000402, NT2RM2000452,					
	NT2RM2000952, NT2RM2001221, NT2RM2002014, NT2RM2002030, NT2RM4000156, NT2RM4000349,					
	NT2RM4000395, NT2RM4000457, NT2RM4000511, NT2RM4000514, NT2RM4000698, NT2RM4000764,					
	NT2RM4001016, NT2RM4001084, NT2RM4001594, NT2RM4001629,					
	NT2RM4001662, NT2RM4001841, NT2RM4002093, NT2RM4002109, NT2RM4002145, NT2RM4002189,					
10	NT2RM4002194, NT2RM4002226, NT2RP1000170, NT2RP1000439, NT2RP1000478, NT2RP1000513,					
	NT2RP1000701, NT2RP1000856, NT2RP1001361, NT2RP2000097, NT2RP2000239, NT2RP2000288,					
	NT2RP2000328, NT2RP2000329, NT2RP2000369, NT2RP2000422, NT2RP2000842, NT2RP2000965,					
	NT2RP2001245, NT2RP2001440, NT2RP2001560, NT2RP2001634, NT2RP2001663, NT2RP2001677,					
	NT2RP2001762, NT2RP2002270, NT2RP2002312, NT2RP2002316, NT2RP2002333, NT2RP2002706,					
15	NT2RP2002925, NT2RP2002959, NT2RP2002987, NT2RP2003125, NT2RP2003137, NT2RP2003237,					
	NT2RP2003272, NT2RP2003596, NT2RP2003604, NT2RP2003643, NT2RP2003968, NT2RP2003976,					
	NT2RP2004194, NT2RP2004321, NT2RP2005037, NT2RP2005140, NT2RP2005204, NT2RP2005293,					
	NT2RP2005457, NT2RP2005555, NT2RP2005600, NT2RP2005701, NT2RP2005719, NT2RP2005722,					
	NT2RP2005773, NT2RP2005890, NT2RP2006023, NT2RP2006071, NT2RP3000186, NT2RP3000341,					
20	NT2RP3000599, NT2RP3000632, NT2RP3000644, NT2RP3000852, NT2RP3000968, NT2RP3001096,					
	NT2RP3001109, NT2RP3001126, NT2RP3001147, NT2RP3001449, NT2RP3001529, NT2RP3001753,					
	NT2RP3001854, NT2RP3001915, NT2RP3001969, NT2RP3002081, NT2RP3002142, NT2RP3002399,					
	NT2RP3002590, NT2RP3002603, NT2RP3002810, NT2RP3002876, NT2RP3003311, NT2RP3003330,					
	NT2RP3003672, NT2RP3004209, NT2RP3004378, NT2RP4000078, NT2RP4000541, NT2RP4000588,					
25	NT2RP4001219, NT2RP4001228, NT2RP4001276, NT2RP4001507, NT2RP4002047, NT2RP5003459,					
	NT2RP5003492, OVARC1000085, OVARC1000087, OVARC1000106, OVARC1000151, OVARC1000198,					
	OVARC1000431, OVARC1000440, OVARC1000564, OVARC1000605, OVARC1000679, OVARC1000883,					
	OVARC1000912, OVARC1000960, OVARC1000971, OVARC1001038, OVARC1001055, OVARC1001085,					
	OVARC1001129, OVARC1001167, OVARC1001339, OVARC1001425, OVARC1001745, OVARC1001762,					
30	OVARC1001766, OVARC1001942, OVARC1002044, OVARC1002138, PLACE1000004, PLACE1000005,					
	PLACE1000420, PLACE1000547, PLACE1000562, PLACE1000653, PLACE1001168, PLACE1001311,					
	PLACE1001377, PLACE1001920, PLACE1001983, PLACE1002066, PLACE1002072, PLACE1002140,					
	PLACE1002171, PLACE1002319, PLACE1002474, PLACE1002499, PLACE1002532, PLACE1002665,					
	PLACE1003025, PLACE1003145, PLACE1003361, PLACE1003605, PLACE1003704, PLACE1003783,					
35	PLACE1003885, PLACE1004405, PLACE1004629, PLACE1004686, PLACE1004930, PLACE1005066,					
	PLACE1005077, PLACE1005630, PLACE1005876, PLACE1006143, PLACE1006325, PLACE1006488,					
	PLACE1006805, PLACE1006829, PLACE1007286, PLACE1007858, PLACE1008201, PLACE1009045,					
	PLACE1009113, PLACE1009621, PLACE1010106, PLACE1010310, PLACE1010622, PLACE1010944,					
	PLACE1010965, PLACE1011185, PLACE1011332, PLACE1011635, PLACE1011646, PLACE1011725,					
40	PLACE2000014, PLACE2000264, PLACE2000394, PLACE2000419, PLACE3000160, PLACE3000220,					
	PLACE3000254, PLACE3000271, PLACE3000339, PLACE3000341, PLACE3000350, PLACE3000353,					
	PLACE3000401, PLACE4000300, SKNMC1000091, THYRO1000855, THYRO1001559, Y79AA1000065,					
	Y79AA1000202, Y79AA1000214, Y79AA1000346, Y79AA1000784, Y79AA1000833, Y79AA1000968,					
	Y79AA1001555, Y79AA1002220					
45	[0091] On the other hand, clones with decreased expression levels in the presence of TNF $\alpha$ are:					
	HEMBA1002150, HEMBB1000240, NT2RM2000469, NT2RM2000984, NT2RM2001688, NT2RM4000290,					
	NT2RM4000496, NT2RM4000590, NT2RM4001047, NT2RM4001582, NT2RM4001611, NT2RM4001650,					
	NT2RM4002075, NT2RM4002128, NT2RP1000174, NT2RP1000243, NT2RP1000581, NT2RP1000688,					
	NT2RP1000767, NT2RP1000825, NT2RP1001185, NT2RP1001286, NT2RP1001432, NT2RP1001457,					
50	NT2RP2000001, NT2RP2000248, NT2RP2000841, NT2RP2001813, NT2RP2002137, NT2RP2002928,					
	NT2RP2003517, NT2RP2003559, NT2RP2003564, NT2RP2004933, NT2RP2005038, NT2RP2006365,					
	NT2RP2000072, NT2RP2000320, NT2RP2000484, NT2RP2000980, NT2RP3001111, NT2RP3001420,					
	NT2RP3001495, NT2RP3002056, NT2RP3002057, NT2RP3002545, NT2RP3002713, NT2RP3002799,					
	NT2RP3002869, NT2RP3002955, NT2RP3003282, NT2RP3003282, NT2RP3003290, NT2RP3003384,					
55	NT2RP3003385, NT2RP3003870, NT2RP3004207, NT2RP3004262, NT2RP3004527, NT2RP4000500,					
	NT2RP4000524, NT2RP4000787, NT2RP4000927, NT2RP4000955, NT2RP4000989, NT2RP4001442,					
	NT2RP4001638, NT2RP4001950, NT2RP4002888, NT2RP5003524, OVARC1001270, PLACE1000246,					
	PLACE1002816					



**[0092]** These are rheumatoid arthritis-associated clones.

**[0093]** A survey of genes of which expression levels are varied in primary cultured skin fibroblast cells exposed to ultraviolet light has revealed the following clones with elevated expression levels by ultraviolet radiation:

HEMBA1000542, HEMBA1001808, HEMBA1002177, HEMBA1003314, MAMMA1001874, NT2RM2001100,  
 5 NT2RP2005732, NT2RP3000592, NT2RP4000657, OVARC 1000004, OVARC1001092, OVARC1001342,  
 PLACE1002816, NT2RM4001002, NT2RM4001813, NT2RM4002266, NT2RP2001174, NT2RP2001196,  
 NT2RP2005358, NT2RP3000690, NT2RP3001216, NT2RP3003464, PLACE1006382, THYRO1000070,  
 THYRO1001100, Y79AA1000342

**[0094]** On the other hand, the expression levels of the following clones were decreased by ultraviolet radiation:

HEMBA1000005, HEMBA1000150, HEMBA1000156, HEMBA1000158, HEMBA1000168, HEMBA1000231,  
 10 HEMBA1000304, HEMBA1000307, HEMBA1000333, HEMBA1000366, HEMBA1000369, HEMBA1000390,  
 HEMBA1000396, HEMBA1000418, HEMBA1000434, HEMBA1000464, HEMBA1000469, HEMBA1000490,  
 HEMBA1000504, HEMBA1000505, HEMBA1000557, HEMBA1000657, HEMBA1000673, HEMBA1000682,  
 HEMBA1000686, HEMBA1000727, HEMBA1000752, HEMBA1000851, HEMBA1000852, HEMBA1000870,  
 15 HEMBA1000872, HEMBA1001085, HEMBA1001121, HEMBA1001133, HEMBA1001235, HEMBA1001265,  
 HEMBA1001281, HEMBA1001289, HEMBA1001299, HEMBA1001303, HEMBA1001310, HEMBA1001323,  
 HEMBA1001595, HEMBA1001620, HEMBA1001640, HEMBA1001678, HEMBA1001712, HEMBA1001835,  
 HEMBA1001950, HEMBA1001987, HEMBA1002253, HEMBA1002321, HEMBA1002341, HEMBA1002419,  
 HEMBA1002679, HEMBA1002728, HEMBA1002818, HEMBA1002935, HEMBA1002999, HEMBA1003034,  
 20 HEMBA1003071, HEMBA1003098, HEMBA1003142, HEMBA1003175, HEMBA1003202, HEMBA1003212,  
 HEMBA1003320, HEMBA1003376, HEMBA1003373, HEMBA1003417, HEMBA1003447, HEMBA1003528,  
 HEMBA1003684, HEMBA1003799, HEMBA1003885, HEMBA1003989, HEMBA1004011, HEMBA1004055,  
 HEMBA1004133, HEMBA1004225, HEMBA1004272, HEMBA1004353, HEMBA1004631, HEMBA1004669,  
 HEMBA1004705, HEMBA1004753, HEMBA1004776, HEMBA1004803, HEMBA1004816, HEMBA1004900,  
 25 HEMBA1005047, HEMBA1005079, HEMBA1005101, HEMBA1005149, HEMBA1005152, HEMBA1005202,  
 HEMBA1005314, HEMBA1005372, HEMBA1005511, HEMBA1005513, HEMBA1005518, HEMBA1005570,  
 HEMBA1005577, HEMBA1005581, HEMBA1005588, HEMBA1005609, HEMBA1005632, HEMBA1005853,  
 HEMBA1006031, HEMBA1006035, HEMBA1006485, HEMBA1006486, HEMBA1006502, HEMBA1006696,  
 HEMBA1006789, HEMBA1006796, HEMBA1007085, HEMBA1007224, HEMBA1007301, HEMBA1007319,  
 30 HEMBA1007341, HEMBA1007342, HEMBB1000036, HEMBB1000037, HEMBB1000217, HEMBB1000266,  
 HEMBB1000317, HEMBB1000336, HEMBB1000354, HEMBB1000369, HEMBB1000399, HEMBB1000434,  
 HEMBB1000438, HEMBB1000592, HEMBB1000673, HEMBB1000789, HEMBB1000810, HEMBB1000883,  
 HEMBB1000887, HEMBB1001105, HEMBB1001182, HEMBB1001242, HEMBB1001267, HEMBB1001424,  
 HEMBB1001464, HEMBB1001531, HEMBB1001618, HEMBB1001996, HEMBB1002092, HEMBB1002139,  
 35 HEMBB1002142, HEMBB1002190, HEMBB1002453, HEMBB1002520, HEMBB1002550, HEMBB1002556,  
 HEMBB1002600, HEMBB1002664, MAMMA1000009, MAMMA1000055, MAMMA1000069, MAMMA1000133,  
 MAMMA1000171, MAMMA1000173, MAMMA1000287, MAMMA1000416, MAMMA1000585, MAMMA1000713,  
 MAMMA1000760, MAMMA1000798, MAMMA1000831, MAMMA1000875, MAMMA1000876, MAMMA1000877,  
 MAMMA1000906, MAMMA1000931, MAMMA1000962, MAMMA1001133, MAMMA1001139, MAMMA1001243,  
 40 MAMMA1001271, MAMMA1001274, MAMMA1001298, MAMMA1001606, MAMMA1001630, MAMMA1001670,  
 MAMMA1001743, MAMMA1001751, MAMMA1002140, MAMMA1002145, MAMMA1002158, MAMMA1002170,  
 MAMMA1002236, MAMMA1002311, MAMMA1002498, MAMMA1002754, MAMMA1002780, MAMMA1002820,  
 MAMMA1002843, MAMMA1002844, MAMMA1002871, MAMMA1003047, NT2RM1000037, NT2RM1000039,  
 NT2RM1000080, NT2RM1000086, NT2RM1000341, NT2RM1000499, NT2RM1000669, NT2RM1000746,  
 45 NT2RM1000781, NT2RM1000885, NT2RM1000905, NT2RM1000962, NT2RM1000992, NT2RM2000239,  
 NT2RM2000371, NT2RM2000639, NT2RM2000649, NT2RM2000735, NT2RM2000821, NT2RM2000984,  
 NT2RM2001035, NT2RM2001065, NT2RM2001105, NT2RM2001177, NT2RM2001194, NT2RM2001196,  
 NT2RM2001243, NT2RM2001256, NT2RM2001424, NT2RM2001588, NT2RM2001635, NT2RM2001648,  
 NT2RM2001652, NT2RM2001668, NT2RM2001706, NT2RM2001727, NT2RM2001730, NT2RM2001743,  
 50 NT2RM2001753, NT2RM2001760, NT2RM2001771, NT2RM2001785, NT2RM2001800, NT2RM2001855,  
 NT2RM2001896, NT2RM2001997, NT2RM2002030, NT2RM2002049, NT2RM2002091, NT2RM2002142,  
 NT2RM2002145, NT2RM2002178, NT2RM2002580, NT2RM4000215, NT2RM4000234, NT2RM4000368,  
 NT2RM4000421, NT2RM4000425, NT2RM4000457, NT2RM4000496, NT2RM4000515, NT2RM4000712,  
 NT2RM4000787, NT2RM4000813, NT2RM4000820, NT2RM4000852, NT2RM4000950, NT2RM4000996,  
 55 NT2RM4001016, NT2RM4001047, NT2RM4001054, NT2RM4001140, NT2RM4001151, NT2RM4001187,  
 NT2RM4001204, NT2RM4001258, NT2RM4001437, NT2RM4001454, NT2RM4001489, NT2RM4001605,  
 NT2RM4001611, NT2RM4001666, NT2RM4001710, NT2RM4001714, NT2RM4001715, NT2RM4001731,  
 NT2RM4001741, NT2RM4001746, NT2RM4001856, NT2RM4001938, NT2RM4001940, NT2RM4001984,

	NT2RM4001987,	NT2RM4002013,	NT2RM4002054,	NT2RM4002055,	NT2RM4002073,	NT2RM4002145,
	NT2RM4002146,	NT2RM4002161,	NT2RM4002174,	NT2RM4002194,	NT2RM4002205,	NT2RM4002213,
	NT2RM4002266,	NT2RM4002278,	NT2RM4002558,	NT2RM4002565,	NT2RM4002593,	NT2RM4002594,
	NT2RP1000063,	NT2RP1000111,	NT2RP1000124,	NT2RP1000174,	NT2RP1000348,	NT2RP1000443,
5	NT2RP1000522,	NT2RP1000677,	NT2RP1000695,	NT2RP1000730,	NT2RP1000767,	NT2RP1000834,
	NT2RP1000856,	NT2RP1000944,	NT2RP1001014,	NT2RP1001073,	NT2RP1001079,	NT2RP1001177,
	NT2RP1001185,	NT2RP1001199,	NT2RP1001253,	NT2RP1001310,	NT2RP1001313,	NT2RP1001385,
	NT2RP1001410,	NT2RP1001449,	NT2RP1001546,	NT2RP2000120,	NT2RP2000126,	NT2RP2000205,
	NT2RP2000224,	NT2RP2000274,	NT2RP2000298,	NT2RP2000310,	NT2RP2000327,	NT2RP2000328,
10	NT2RP2000329,	NT2RP2000337,	NT2RP2000369,	NT2RP2000414,	NT2RP2000498,	NT2RP2000510,
	NT2RP2000715,	NT2RP2000819,	NT2RP2000931,	NT2RP2000938,	NT2RP2001044,	NT2RP2001085,
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	THYRO1000279,	THYRO1000327,	THYRO1000394,	THYRO1000438,	THYRO1000558,	THYRO1000569,
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20	[0095] These clones are associated with ultraviolet radiation damage.					
	[0096] A survey of genes of which expression levels are varied in response to the stimulation for inducing cell differentiation (stimulation using retinoic acid (RA) or using RA/inhibitor (inhibitor for cell division)) in culture cells of neural strain, NT2, revealed the following clones with elevated expression levels in the presence of RA:					
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	HEMBA1000357,	HEMBA1000376,	HEMBA1000387,	HEMBA1000392,	HEMBA1000428,	HEMBA1000456,
	HEMBA1000459,	HEMBA1000469,	HEMBA1000504,	HEMBA1000508,	HEMBA1000519,	HEMBA1000540,
	HEMBA1000545,	HEMBA1000557,	HEMBA1000563,	HEMBA1000568,	HEMBA1000575,	HEMBA1000588,
	HEMBA1000592,	HEMBA1000604,	HEMBA1000622,	HEMBA1000655,	HEMBA1000673,	HEMBA1000682,
30	HEMBA1000726,	HEMBA1000727,	HEMBA1000749,	HEMBA1000769,	HEMBA1000774,	HEMBA1000791,
	HEMBA1000822,	HEMBA1000872,	HEMBA1000876,	HEMBA1000910,	HEMBA1000942,	HEMBA1000943,
	HEMBA1000960,	HEMBA1000972,	HEMBA1000974,	HEMBA1000991,	HEMBA1001008,	HEMBA1001020,
	HEMBA1001043,	HEMBA1001051,	HEMBA1001060,	HEMBA1001071,	HEMBA1001077,	HEMBA1001085,
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40	NT2RP3001274,	NT2RP3001281,	NT2RP3001297,	NT2RP3001355,	NT2RP3001356,	NT2RP3001383,
	NT2RP3001396,	NT2RP3001407,	NT2RP3001420,	NT2RP3001428,	NT2RP3001449,	NT2RP3001453,
	NT2RP3001472,	NT2RP3001490,	NT2RP3001495,	NT2RP3001497,	NT2RP3001527,	NT2RP3001554,
	NT2RP3001589,	NT2RP3001642,	NT2RP3001679,	NT2RP3001688,	NT2RP3001712,	NT2RP3001752,
	NT2RP3001782,	NT2RP3001799,	NT2RP3001844,	NT2RP3001926,	NT2RP3001989,	NT2RP3002002,
	NT2RP3002004,	NT2RP3002033,	NT2RP3002056,	NT2RP3002062,	NT2RP3002102,	NT2RP3002142,
45	NT2RP3002173,	NT2RP3002248,	NT2RP3002304,	NT2RP3002343,	NT2RP3002484,	NT2RP3002529,
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	NT2RP3002877,	NT2RP3002972,	NT2RP3003032,	NT2RP3003133,	NT2RP3003139,	NT2RP3003145,
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50	NT2RP3003403,	NT2RP3003500,	NT2RP3003543,	NT2RP3003576,	NT2RP3003672,	NT2RP3003828,
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	NT2RP3004572,	NT2RP30040035,	NT2RP4000147,	NT2RP4000167,	NT2RP4000212,	NT2RP4000214,
55	NT2RP4000259,	NT2RP4000360,	NT2RP4000381,	NT2RP4000398,	NT2RP4000424,	NT2RP4000448,
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	NT2RP4001677,	NT2RP4001679,	NT2RP4001730,	NT2RP4001803,	NT2RP4001889,	NT2RP4001946,
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5	OVARC1000414,	OVARC1000442,	OVARC1000443,	OVARC1000486,	OVARC1000520,	OVARC1000526,
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	OVARC1000679,	OVARC1000682,	OVARC1000700,	OVARC1000703,	OVARC1000746,	OVARC1000769,
	OVARC1000800,	OVARC1000846,	OVARC1000862,	OVARC1000885,	OVARC1000924,	OVARC1000936,
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10	OVARC1001004,	OVARC1001032,	OVARC1001034,	OVARC1001040,	OVARC1001044,	OVARC1001092,
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20	PLACE1000444,	PLACE1000540,	PLACE1000547,	PLACE1000562,	PLACE1000583,	PLACE1000599,
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25	PLACE1001484,	PLACE1001503,	PLACE1001570,	PLACE1001603,	PLACE1001608,	PLACE1001610,
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	PLACE1002004,	PLACE1002066,	PLACE1002072,	PLACE1002119,	PLACE1002150,	PLACE1002157,
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30	PLACE1002474,	PLACE1002477,	PLACE1002499,	PLACE1002500,	PLACE1002537,	PLACE1002578,
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35	PLACE1003519,	PLACE1003575,	PLACE1003584,	PLACE1003592,	PLACE1003593,	PLACE1003638,
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40	PLACE1004510,	PLACE1004629,	PLACE1004658,	PLACE1004672,	PLACE1004686,	PLACE1004751,
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	PLACE1005128,	PLACE1005146,	PLACE1005266,	PLACE1005305,	PLACE1005374,	PLACE1005409,
45	PLACE1005453,	PLACE1005477,	PLACE1005481,	PLACE1005528,	PLACE1005574,	PLACE1005666,
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50	PLACE1006617,	PLACE1006629,	PLACE1006673,	PLACE1006704,	PLACE1006760,	PLACE1006792,
	PLACE1006795,	PLACE1006800,	PLACE1006860,	PLACE1006904,	PLACE1006961,	PLACE1006962,
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55	PLACE1007807,	PLACE1007829,	PLACE1007858,	PLACE1008002,	PLACE1008129,	PLACE1008132,
	PLACE1008201,	PLACE1008209,	PLACE1008273,	PLACE1008368,	PLACE1008532,	PLACE1008568,
	PLACE1008696,	PLACE1008867,	PLACE1008887,	PLACE1008941,	PLACE1009027,	PLACE1009039,
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	PLACE1010102,	PLACE1010106,	PLACE1010152,	PLACE1010383,	PLACE1010491,	PLACE1010616,
5	PLACE1010630,	PLACE1010631,	PLACE1010702,	PLACE1010739,	PLACE1010761,	PLACE1010833,
	PLACE1010870,	PLACE1010896,	PLACE1010916,	PLACE1010925,	PLACE1010942,	PLACE1010954,
	PLACE1010965,	PLACE1011041,	PLACE1011046,	PLACE1011054,	PLACE1011057,	PLACE1011090,
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10	PLACE1011729,	PLACE1011749,	PLACE1011762,	PLACE1011783,	PLACE1011874,	PLACE1011995,
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	PLACE2000394,	PLACE2000433,	PLACE2000450,	PLACE2000465,	PLACE3000103,	PLACE3000119,
15	PLACE3000121,	PLACE3000124,	PLACE3000155,	PLACE3000158,	PLACE3000207,	PLACE3000220,
	PLACE3000242,	PLACE3000271,	PLACE3000304,	PLACE3000322,	PLACE3000331,	PLACE3000341,
	PLACE3000362,	PLACE3000365,	PLACE3000388,	PLACE3000399,	PLACE3000400,	PLACE3000401,
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	PLACE4000128,	PLACE4000156,	PLACE4000222,	PLACE4000250,	PLACE4000320,	PLACE4000379,
20	PLACE4000431,	PLACE4000445,	PLACE4000465,	PLACE4000487,	PLACE4000494,	PLACE4000522,
	PLACE4000558,	PLACE4000581,	PLACE4000650,	PLACE4000654,		
	THYRO1000034,	THYRO1000085,	THYRO1000092,	THYRO1000111,	THYRO1000156,	THYRO1000163,
	THYRO1000173,	THYRO1000190,	THYRO1000197,	THYRO1000221,	THYRO1000241,	THYRO1000327,
	THYRO1000381,	THYRO1000387,	THYRO1000394,	THYRO1000488,	THYRO1000585,	THYRO1000625,
25	THYRO1000637,	THYRO1000658,	THYRO1000666,	THYRO1000676,	THYRO1000684,	THYRO1000712,
	THYRO1000734,	THYRO1000793,	THYRO1000796,	THYRO1000805,	THYRO1000815,	THYRO1000865,
	THYRO1000916,	THYRO1000934,	THYRO1000974,	THYRO1000975,	THYRO1001031,	THYRO1001062,
	THYRO1001093,	THYRO1001133,	THYRO1001173,	THYRO1001177,	THYRO1001189,	THYRO1001204,
	THYRO1001213,	THYRO1001262,	THYRO1001290,	THYRO1001320,	THYRO1001322,	THYRO1001401,
30	THYRO1001406,	THYRO1001426,	THYRO1001480,	THYRO1001487,	THYRO1001537,	THYRO1001595,
	THYRO1001617,	THYRO1001637,	THYRO1001706,	THYRO1001772,	THYRO1001828,	THYRO1001854,
	Y79AA1000059,	Y79AA1000214,	Y79AA1000355,	Y79AA1000410,	Y79AA1000538,	Y79AA1000539,
	Y79AA1000705,	Y79AA1000800,	Y79AA1000850,	Y79AA1000962,	Y79AA1000976,	Y79AA1001061,
	Y79AA1001068,	Y79AA1001493,	Y79AA1001548,	Y79AA1001585,	Y79AA1001594,	Y79AA1001696,
35	Y79AA1001711,	Y79AA1002103,	Y79AA1002115,	Y79AA1002258,	Y79AA1002361,	Y79AA1002407,
	Y79AA1002472,	Y79AA1002482				
	[0097] On the other hand, clones of which expression levels decreased by RA are as follows:					
	HEMBA1000946,	HEMBA1003569,	HEMBA1005570,	HEMBA1000915,	NT2RM1000666,	NT2RM2000092,
	NT2RM2000594,	NT2RM2001256,	NT2RM4001754,	NT2RM4001905,	NT2RP20021675,	NT2RP20020247,
40	NT2RP2005491,	NT2RP3000980,	NT2RP3002081,	NT2RP3004594,	NT2RP4001950,	NT2RP4002408,
	OVARC1000431,	OVARC1001942,	OVARC1001943,	PLACE1003190,	PLACE1004968,	PLACE1005923,
	PLACE1007257,	PLACE1010624,	Y79AA1000346			
	[0098] Clones of which expression levels increase by RA/inhibitor are as follows:					
	HEMBA1000046,	HEMBA1000307,	HEMBA1000434,	HEMBA1000504,	HEMBA1000588,	HEMBA1000682,
45	HEMBA1000726,	HEMBA1000943,	HEMBA1001071,	HEMBA1001094,	HEMBA1001122,	HEMBA1001323,
	HEMBA1001361,	HEMBA1001455,	HEMBA1001709,	HEMBA1001746,	HEMBA1001869,	HEMBA1002084,
	HEMBA1002583,	HEMBA1002628,	HEMBA1002801,	HEMBA1002937,	HEMBA1003096,	HEMBA1003142,
	HEMBA1003229,	HEMBA1003276,	HEMBA1003309,	HEMBA1003463,	HEMBA1003597,	HEMBA1003617,
	HEMBA1003725,	HEMBA1003803,	HEMBA1003879,	HEMBA1003989,	HEMBA1004000,	HEMBA1004015,
50	HEMBA1004024,	HEMBA1004049,	HEMBA1004056,	HEMBA1004199,	HEMBA1004248,	HEMBA1004356,
	HEMBA1004554,	HEMBA1004666,	HEMBA1004725,	HEMBA1004770,	HEMBA1004803,	HEMBA1004923,
	HEMBA1004934,	HEMBA1004954,	HEMBA1005039,	HEMBA1005075,	HEMBA1005113,	HEMBA1005219,
	HEMBA1005232,	HEMBA1005521,	HEMBA1005304,	HEMBA1005367,	HEMBA1005372,	HEMBA1005403,
	HEMBA1005410,	HEMBA1005411,	HEMBA1005548,	HEMBA1005581,	HEMBA1005631,	HEMBA1005666,
55	HEMBA1005755,	HEMBA1005780,	HEMBA1006067,	HEMBA1006130,	HEMBA1006364,	HEMBA1006485,
	HEMBA1006559,	HEMBA1006579,	HEMBA1006754,	HEMBA1000059,	HEMBA1000075,	HEMBA1000709,
	HEMBA1000822,	HEMBA1000848,	HEMBA1000852,	HEMBA1000913,	HEMBA1000985,	HEMBA1001117,
	HEMBA1001210,	HEMBA1001317,	HEMBA1001394,	HEMBA1001443,	HEMBA1001668,	HEMBA1001695,

	HEMBB1002049, HEMBB1002617, MAMMA1001613, MAMMA1001243, MAMMA1002941,	HEMBB1002254, HEMBB1002692, MAMMA1000824, MAMMA1001815,	HEMBB1002266, HEMBB1002697, MAMMA1000908, MAMMA1001820,	HEMBB1002371, MAMMA1000241, MAMMA1000956, MAMMA1002267,	HEMBB1002502, MAMMA1000424, MAMMA1001038, MAMMA1002769,	HEMBB1002614, MAMMA1000616, MAMMA1001091, MAMMA1002871,
5	NT2RM1000355, NT2RM2000635, NT2RM2001673, NT2RM2001695,	NT2RM1000725, NT2RM2000718, NT2RM2001632, NT2RM2001760,	NT2RM1000829, NT2RM2000821, NT2RM2001635, NT2RM2001782,	NT2RM1000850, NT2RM2001370, NT2RM2001648, NT2RM2001839,	NT2RM1000898, NT2RM2001582, NT2RM2001659, NT2RM2001879,	NT2RM2000504, NT2RM2001592, NT2RM2001671, NT2RM2001993,
10	NT2RM4000104, NT2RM4000852, NT2RM4001582, NT2RM4002594, NT2RP1000856,	NT2RM4000290, NT2RM4001047, NT2RM4001938, NT2RP1000259, NT2RP1000943,	NT2RM4000425, NT2RM4001347, NT2RM4001953, NT2RP1000418, NT2RP1000988,	NT2RM4000433, NT2RM4001454, NT2RM4002018, NT2RP1000574, NT2RP1001013,	NT2RM4000471, NT2RM4001557, NT2RM4002409, NT2RP1000629, NT2RP1001173,	NT2RM4000531, NT2RM4001566, NT2RM4002558, NT2RP1000782, NT2RP1001546,
15	NT2RP2000091, NT2RP2000842, NT2RP2001366, NT2RP2001663, NT2RP2002078,	NT2RP2000208, NT2RP2000943, NT2RP2001423, NT2RP2001926, NT2RP2002124,	NT2RP2000274, NT2RP2000987, NT2RP2001436, NT2RP2001985, NT2RP2002185,	NT2RP2000329, NT2RP2001094, NT2RP2001467, NT2RP2002032, NT2RP2002193,	NT2RP2000369, NT2RP2001277, NT2RP2001506, NT2RP2002041, NT2RP2002312,	NT2RP2000634, NT2RP2001290, NT2RP2001601, NT2RP2002046, NT2RP2002316,
20	NT2RP2002426, NT2RP2002672, NT2RP2003137, NT2RP2003347, NT2RP2003517,	NT2RP2002457, NT2RP2002710, NT2RP2003158, NT2RP2003393, NT2RP2003543,	NT2RP2002475, NT2RP2002727, NT2RP2003206, NT2RP2003401, NT2RP2003596,	NT2RP2002520, NT2RP2002727, NT2RP2003230, NT2RP2003445, NT2RP2003706,	NT2RP2002595, NT2RP2003099, NT2RP2003272, NT2RP2003456, NT2RP2003871,	NT2RP2002643, NT2RP2003121, NT2RP2003280, NT2RP2003511, NT2RP2004681,
25	NT2RP2004743, NT2RP2005289, NT2RP2006043, NT2RP2006856, NT2RP3000441,	NT2RP2004775, NT2RP2005534, NT2RP2006393, NT2RP3000348, NT2RP3000561,	NT2RP2004933, NT2RP2005453, NT2RP2006436, NT2RP3000359, NT2RP3000759,	NT2RP2004967, NT2RP2005555, NT2RP2006441, NT2RP3000366, NT2RP3000826,	NT2RP2005003, NT2RP2005767, NT2RP2006467, NT2RP3000403, NT2RP3001007,	NT2RP2005270, NT2RP2005853, NT2RP2006534, NT2RP3000418, NT2RP3001096,
30	NT2RP3001126, NT2RP3001727, NT2RP3001989, NT2RP3002549, NT2RP3003139,	NT2RP3001355, NT2RP3001752, NT2RP3002142, NT2RP3002628, NT2RP3003193,	NT2RP3001396, NT2RP3001777, NT2RP3002248, NT2RP3002687, NT2RP3003203,	NT2RP3001449, NT2RP3001782, NT2RP3002343, NT2RP3002688, NT2RP3003204,	NT2RP3001490, NT2RP3001799, NT2RP3002484, NT2RP3002810, NT2RP3003210,	NT2RP3001679, NT2RP3001854, NT2RP3002529, NT2RP3003032, NT2RP3003212,
35	NT2RP3003264, NT2RP4000259, NT2RP4000907, NT2RP4001274, OVARC1000092,	NT2RP3003282, NT2RP4000360, NT2RP4000989, NT2RP4001353, OVARC10000526,	NT2RP3003500, NT2RP4000448, NT2RP4001079, NT2RP4001547, OVARC10000862,	NT2RP3004041, NT2RP4000524, NT2RP4001150, NT2RP4001677, OVARC10000408,	NT2RP3004215, NT2RP4000588, NT2RP4001219, NT2RP4002052, OVARC10000414,	NT2RP3004017, NT2RP4000879, NT2RP4001260, OVARC10000006, OVARC10000520,
40	OVARC10000526, OVARC10000862, OVARC1001170, OVARC1001425, OVARC1001987,	OVARC1000588, OVARC1000886, OVARC1001173, OVARC1001476, OVARC1002066,	OVARC1000679, OVARC1000984, OVARC1001200, OVARC1001480, OVARC1002112,	OVARC1000682, OVARC1001000, OVARC1001268, OVARC1001542, OVARC1002127,	OVARC1000769, OVARC1001004, OVARC1001376, OVARC1001873, OVARC1002127,	OVARC10008050, OVARC1000850, OVARC1001154, OVARC1001419, OVARC1001928,
45	PLACE1000014, PLACE1000332, PLACE1001168, PLACE1001570, PLACE1001821,	PLACE1000048, PLACE1000347, PLACE1001185, PLACE1001608, PLACE1001844,	PLACE1000184, PLACE1000564, PLACE1001241, PLACE1001610, PLACE1001897,	PLACE1000185, PLACE1000656, PLACE1001294, PLACE1001716, PLACE1002066,	PLACE1000246, PLACE1000712, PLACE1001311, PLACE1001746, PLACE1002119,	PLACE1000292, PLACE1001000, PLACE1001395, PLACE1001817, PLACE1002157,
50	PLACE1002205, PLACE1002477, PLACE1002968, PLACE1003334, PLACE1003586,	PLACE1002256, PLACE1002500, PLACE1003108, PLACE1003342, PLACE1003723,	PLACE1002259, PLACE1002514, PLACE1003174, PLACE1003516, PLACE1003760,	PLACE1002399, PLACE1002578, PLACE1003200, PLACE1003521, PLACE1003771,	PLACE1002438, PLACE1002815, PLACE1003238, PLACE1003537, PLACE1003783,	PLACE1002474, PLACE1002851, PLACE1003256, PLACE1003592, PLACE1003795,
55	PLACE1003892, PLACE1004506, PLACE1005101, PLACE1005327, PLACE1005377,	PLACE1003968, PLACE1004629, PLACE1005102, PLACE1005128, PLACE1005477,	PLACE1004103, PLACE1004674, PLACE1005128, PLACE1005181, PLACE1005595,	PLACE1004256, PLACE1004813, PLACE1005181, PLACE1005603, PLACE1005666,	PLACE1004405, PLACE1004979, PLACE1005287, PLACE1005666, PLACE1005804,	PLACE1004460, PLACE1005066, PLACE1005305, PLACE1005804, PLACE1005804,

	PLACE1005884,	PLACE1005934,	PLACE1006076,	PLACE1006119,	PLACE1006159,	PLACE1006164,
	PLACE1006170,	PLACE1006382,	PLACE1006492,	PLACE1006629,	PLACE1006704,	PLACE1006731,
	PLACE1006760,	PLACE1006779,	PLACE1006795,	PLACE1006805,	PLACE1006962,	PLACE1007045,
	PLACE1007111,	PLACE1007282,	PLACE1007386,	PLACE1007416,	PLACE1007484,	PLACE1007544,
5	PLACE1007645,	PLACE1007743,	PLACE1007746,	PLACE1007807,	PLACE1007858,	PLACE1008002,
	PLACE1008181,	PLACE1008273,	PLACE1008368,	PLACE1008405,	PLACE1008532,	PLACE1008566,
	PLACE1008625,	PLACE1008696,	PLACE1008867,	PLACE1009027,	PLACE1009039,	PLACE1009045,
	PLACE1009110,	PLACE1009298,	PLACE1009328,	PLACE1009581,	PLACE1009621,	PLACE1009622,
	PLACE1009637,	PLACE1009925,	PLACE1009935,	PLACE1010089,	PLACE1010106,	PLACE1010152,
10	PLACE1010274,	PLACE1010491,	PLACE1010629,	PLACE1010630,	PLACE1010714,	PLACE1010739,
	PLACE1010891,	PLACE1010896,	PLACE1010925,	PLACE1010965,	PLACE1011026,	PLACE1011046,
	PLACE1011214,	PLACE1011399,	PLACE1011433,	PLACE1011492,	PLACE1011641,	PLACE1011649,
	PLACE1011719,	PLACE1011762,	PLACE1011858,	PLACE1011923,	PLACE2000014,	PLACE2000039,
	PLACE2000216,	PLACE2000302,	PLACE2000317,	PLACE2000342,	PLACE2000347,	PLACE2000379,
15	PLACE3000121,	PLACE3000124,	PLACE3000160,	PLACE3000242,	PLACE3000271,	PLACE3000353,
	PLACE3000362,	PLACE3000365,	PLACE3000400,	PLACE3000401,	PLACE4000034,	PLACE4000089,
	PLACE4000522,	PLACE4000558,				
	SKNMC1000050,	THYRO1000040,	THYRO1000197,	THYRO1000241,	THYRO1000327,	THYRO1000394,
	THYRO1000488,	THYRO1000501,	THYRO1000585,	THYRO1000596,	THYRO1000625,	THYRO1000805,
20	THYRO1000934,	THYRO1001133,	THYRO1001134,	THYRO1001173,	THYRO1001213,	THYRO1001262,
	THYRO1001290,	THYRO1001721,	Y79AA1000037,	Y79AA1000800,	Y79AA1000976,	Y79AA1001078,
	Y79AA1001228,	Y79AA1001299,	Y79AA1001402,	Y79AA1001585,	Y79AA1001696,	Y79AA1001711,
	Y79AA1001827,	Y79AA1001875,	Y79AA1002027,	Y79AA1002211,	Y79AA1002234,	Y79AA1002258,

[0099] On the other hand, clones of which expression levels decrease by RA/inhibitor are as follows:

25	HEMBA1000012,	HEMBA1000501,	HEMBA1000946,	HEMBA1003220,	HEMBA1003403,	HEMBA1003569,
	HEMBA1003591,	HEMBA1003926,	HEMBA1004168,	HEMBA1004507,	HEMBA1005009,	HEMBA1005296,
	HEMBA1005528,	HEMBA1005570,	HEMBA1006467,	HEMBA1006486,	HEMBA1006492,	HEMBA1007322,
	HEMBA1000055,	HEMBA1000244,	HEMBA1001665,	MAMMA1000684,	MAMMA1001139,	MAMMA1001743,
	NT2RM1000257,	NT2RM1000318,	NT2RM1000539,	NT2RM1000666,	NT2RM2000092,	NT2RM2000192,
30	NT2RM2000371,	NT2RM2000594,	NT2RM4000511,	NT2RM4001140,	NT2RM4001754,	NT2RM4001905,
	NT2RM4001940,	NT2RM4002593,	NT2RP1000086,	NT2RP1000439,	NT2RP1001073,	NT2RP2000098,
	NT2RP2000965,	NT2RP2001397,	NT2RP2002047,	NT2RP2004226,	NT2RP2004396,	NT2RP2004655,
	NT2RP2005126,	NT2RP2005464,	NT2RP2005712,	NT2RP2005859,	NT2RP2005890,	NT2RP3000980,
	NT2RP3001383,	NT2RP3001621,	NT2RP3002081,	NT2RP3002181,	NT2RP3002244,	NT2RP3002590,
35	NT2RP3003059,	NT2RP3004258,	NT2RP3004378,	NT2RP3004527,	NT2RP3004594,	NT2RP4001760,
	NT2RP4001950,	NT2RP4002047,	NT2RP4002408,	NT2RP5003459,	OVARC1000004,	OVARC1000035,
	OVARC1000431,	OVARC1001051,	OVARC1001129,	OVARC1001176,	OVARC1001261,	OVARC1001342,
	OVARC1001942,	OVARC1001943,	PLACE1002171,	PLACE1002465,	PLACE1003190,	PLACE1003375,
	PLACE1004128,	PLACE1005026,	PLACE1005876,	PLACE1005923,	PLACE1007257,	PLACE1007375,
40	PLACE1007507,	PLACE1008941,	PLACE1010624,	PLACE1011090,	PLACE1011219,	THYRO1000270,
	Y79AA1000346,	Y79AA1001541				

[0100] These clones are also associated with neural differentiation and, therefore, are candidates for genes associated with neurological diseases.

[0101] For example, if the protein encoded by the cDNA of the present invention is a regulatory factor of cellular conditions such as growth and differentiation, it can be used for developing medicines as follows. The protein or antibody provided by the invention is injected into a certain kind of cells by microinjection. Then, using the cells, it is possible to screen low molecular weight compounds by measuring the change in the cellular conditions, or the activation or inhibition of a particular gene. The screening can be performed as follows. First, the protein is expressed and purified as recombinant. The purified protein is microinjected into cells such as various cell lines, or primary culture cells, and the cellular change such as growth and differentiation can be examined. Alternatively, the induction of genes whose expression is known to be associated with a particular change of cellular conditions may be detected by the amount of mRNA or protein. Or, the amount of intracellular molecules (low molecular weight compounds, etc.) that is changed by the function of the gene product (protein) which is known to be associated with a particular change of cellular conditions may be detected. The compounds to be screened (both low and high molecular compounds are acceptable) can be added to the culture media and assessed for their activity by measuring the change of the cellular conditions. Instead of microinjection, cell lines introduced with the gene obtained in the invention can be used for the screening. If the gene product is turn out to be associated with a particular change in the cellular conditions, the change of the product can be used as a measurement for screening. Once a compound is screened out which can activate or inhibit

the function of the protein of the invention, it can be applied for developing medicines.

**[0102]** If the protein encoded by the cDNA of the present invention is a secretory protein, membrane protein, or protein associated with signal transduction, glycoprotein, transcription, or diseases, it can be used in functional assays for developing medicines.

**[0103]** In case of a membrane protein, it is most likely to be a protein that functions as a receptor or ligand on the cell surface. Therefore, it is possible to reveal a new relationship between a ligand and receptor by screening the membrane protein of the invention based on the binding activity with the known ligand or receptor. Screening can be performed according to the known methods.

**[0104]** For example, a ligand against the protein of the invention can be screened in the following manner. Namely, a ligand that binds to a specific protein can be screened by a method comprising the steps of: (a) contacting a test sample with the protein of the invention or a partial peptide thereof, or cells expressing these, and (b) selecting a test sample that binds to said protein, said partial peptide, or said cells.

**[0105]** On the other hand, for example, screening using cells expressing the protein of the present invention that is a receptor protein can also be performed as follows. It is possible to screen receptors that is capable of binding to a specific protein by using procedures (a) attaching the sample cells to the protein of the invention or its partial peptide, and (b) selecting cells that can bind to the said protein or its partial peptide.

**[0106]** In a following screening as an example, first the protein of the invention is expressed, and the recombinant protein is purified. Next, the purified protein is labeled, binding assay is performed using a various cell lines or primary cultured cells, and cells that are expressing a receptor are selected (Growth and differentiation factors and their receptors, Shin-Seikagaku Jikken Kouza Vol.7 (1991) Honjiyo, Arai, Taniguchi, and Muramatsu edit, p203-236, Tokyo-Kagaku-Doujin). A protein of the invention can be labeled with RI such as  $^{125}\text{I}$ , and enzyme (alkaline phosphatase etc.). Alternatively, a protein of the invention may be used without labeling and then detected by using a labeled antibody against the protein. The cells that are selected by the above screening methods, which express a receptor of the protein of the invention, can be used for the further screening of an agonists or antagonists of the said receptor.

**[0107]** Once the ligand binding to the protein of the invention, the receptor of the protein of the invention or the cells expressing the receptor are obtained by screening, it is possible to screen a compound that binds to the ligand and receptor. Also it is possible to screen a compound that can inhibit both bindings (agonists or antagonists of the receptor, for example) by utilizing the binding activities.

**[0108]** When the protein of the invention is a receptor, the screening method comprises the steps of (a) contacting the protein of the invention or cells expressing the protein of the invention with the ligand, in the presence of a test sample, (b) detecting the binding activity between said protein or cells expressing said protein and the ligand, and (c) selecting a compound that reduces said binding activity when compared to the activity in the absence of the test sample. Furthermore, when the protein of the invention is a ligand, the screening method comprises the steps of (a) contacting the protein of the invention with its receptor or cells expressing the receptor in the presence of samples, (b) detecting the binding activity between the protein and its receptor or the cells expressing the receptor, and (c) selecting a compound that can potentially reduce the binding activity compared to the activity in the absence of the sample.

**[0109]** Samples to screen include cell extracts, expressed products from a gene library, synthesized low molecular compound, synthesized peptide, and natural compounds, for example, but are not construed to be listed here. A compound that is isolated by the above screening using a binding activity of the protein of the invention can also be used as a sample.

**[0110]** A compound isolated by the screening may be a candidate to be an agonist or an antagonist of the receptor of the protein. By utilizing an assay that monitors a change in the intracellular signaling such as phosphorylation which results from reduction of the binding between the protein and its receptor, it is possible to identify whether the obtained compound is an agonist or antagonist of the receptor. Also, the compound may be a candidate of a molecule that can inhibit the interaction between the protein and its associated proteins (including a receptor) in vivo. Such compounds can be used for developing drugs for precaution or cures of a disease with which the protein is associated.

**[0111]** Secretory proteins may regulate cellular conditions such as growth and differentiation. It is possible to find out a novel factor that regulates cellular conditions by adding the secretory protein of the invention to a certain kind of cell, and performing a screening by utilizing the cellular changes in growth or differentiation, or activation of a particular gene.

**[0112]** The screening can be performed, for example, as follows. First, the protein of the invention is expressed and purified in a recombinant form. Then, the purified protein is added to a various kind of cell lines or primary cultured cells, and the change in the cell growth and differentiation is monitored. The induction of a particular gene that is known to be involved in a certain cellular change is detected by the amounts of mRNA and protein. Alternatively, the amount of an intracellular molecule (low-molecular-weight compounds, etc.) that is changed by the function of a gene product (protein) that is known to function in a certain cellular change is used for the detection.

**[0113]** Once the screening reveals that the protein of the invention can regulate cellular conditions or the functions, it is possible to apply the protein as a pharmaceutical and diagnostic medicine for associated diseases by itself or by



altering a part of it into an appropriate composition.

**[0114]** As is above described for membrane proteins, the secretory protein provided by the invention may be used to explore a novel ligand-receptor interaction using a screening based on the binding activity to a known ligand or receptor. A similar method can be used to identify an agonist or antagonist. The resulting compounds obtained by the methods can be a candidate of a compound that can inhibit the interaction between the protein of the invention and an interacting molecule (including a receptor). The compounds may be able to use as a preventive, therapeutic, and diagnostic medicine for the diseases, in which the protein may play a certain role.

**[0115]** Proteins associated with signal transduction or transcription may be a factor that affects a certain protein or gene in response to intracellular/extracellular stimuli. It is possible to find out a novel factor that can affect a protein or gene by expressing the protein provided by the invention in a certain types of cells, and performing a screening utilizing the activation of a certain intracellular protein or gene.

**[0116]** The screening may be performed as follows. First, a transformed cell line expressing the protein is obtained. Then, the transformed cell line and the untransformed original cell line are compared for the changes in the expression of a certain gene by detecting the amount of its mRNA or protein. Alternatively, the amount of an intracellular molecule (low molecular weight compounds) that is changed by the function of a certain gene product (protein) may be used for the detection. Furthermore, the change of the expression of a certain gene can be detected by introducing a fusion gene that comprises a regulatory region of the gene and a marker gene (luciferase, beta-galactosidase, etc.) into a cell, expressing the protein provided by the invention into the cell, and estimating the activity of a marker gene product (protein).

**[0117]** If the protein or gene of the invention is associated with diseases, it is possible to screen a gene or compound that can regulate its expression and/or activity either directly or indirectly by utilizing the protein of the present invention.

**[0118]** For example, the protein of the invention is expressed and purified as a recombinant protein. Then, the protein or gene that interacts with the protein of the invention is purified, and screened based on the binding. Alternatively, the screening can be performed by adding with a compound of a candidate of the inhibitor added in advance and monitoring the change of binding activity. In another method, a transcription regulatory region locating in the 5'-upstream of the gene encoding the protein of the invention that is capable of regulating the expression of other genes is obtained, and fused with a marker gene. The fusion is introduced into a cell, and the cell is added with compounds to explore a regulatory factor of the expression of the said gene.

**[0119]** The compound obtained by the screening can be used for developing pharmaceutical and diagnostic medicines for the diseases with which the protein of the present invention is associated. Similarly, if the regulatory factor obtained in the screening is turn out to be a protein, compounds that can newly affect the expression or activity of the protein may be used as a medicine for the diseases with which the protein of the invention is associated.

**[0120]** If the protein of the invention has an enzymatic activity, regardless as to whether it is a secretory protein, membrane protein, or proteins associated with signal transduction, glycoprotein, transcription, or diseases, a screening may be performed by adding a compound to the protein of the invention and monitoring the change of the compound. The enzymatic activity may also be utilized to screen a compound that can inhibit the activity of the protein.

**[0121]** In a screening given as an example, the protein of the invention is expressed and the recombinant protein is purified. Then, compounds are contacted with the purified protein, and the amount of the compound and the reaction products is examined. Alternatively, compounds that are candidates of an inhibitor are pretreated, then a compound (substrate) that can react with the purified protein is added, and the amount of the substrate and the reaction products is examined.

**[0122]** The compounds obtained in the screening may be used as a medicine for diseases with which the protein of the invention is associated. Also they can be applied for tests that examine whether the protein of the invention functions normally *in vivo*.

**[0123]** Whether the secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein of the present invention is a novel protein associated with diseases or not is determined in another method than described above, by obtaining a specific antibody against the protein of the invention, and examining the relationship between the expression or activity of the protein and a certain disease. In an alternative way, it may be analyzed referred to the methods in "Molecular Diagnosis of Genetic Diseases" (Elles R. edit. (1996) in the series of "Method in Molecular Biology" (Humana Press).

**[0124]** Proteins associated with diseases are targets of screening as mentioned, and thus are very useful in developing drugs which regulate their expression and activity. Also, the proteins are useful in the medicinal industry as a diagnostic marker of the associated disease or a target of gene therapy.

**[0125]** Compounds isolated as mentioned above can be administered patients as it is, or after formulated into a pharmaceutical composition according to the known methods. For example, a pharmaceutically acceptable carrier or vehicle, specifically sterilized water, saline, plant oil, emulsifier, or suspending agent can be mixed with the compounds appropriately. The pharmaceutical compositions can be administered to patients by a method known to those skilled in the art, such as intraarterial, intravenous, or subcutaneous injections. The dosage may vary depending on the weight

or age of a patient, or the method of administration, but those skilled in the art can choose an appropriate dosage properly. If the compound is encoded by DNA, the DNA can be cloned into a vector for gene therapy, and used for gene therapy. The dosage of the DNA and the method of its administration may vary depending on the weight or age of a patient, or the symptoms, but those skilled in the art can choose properly.

**[0126]** The present invention further relates to databases comprising at least a sequence of polynucleotide and/or protein, or a medium recorded in such databases, selected from the sequence data of the nucleotide and/or the amino acids indicated in Table 350 and Table 351.

The term "database" means a set of accumulated information as machine-searchable and readable information of nucleotide sequence. The databases of the present invention comprise at least one of the novel nucleotide sequences of polynucleotides provided by the present invention. The databases of the present invention can consist of only the sequence data of the novel polynucleotides provided by the present invention or can comprise other information on nucleotide sequences of known full-length cDNAs or ESTs. The databases of the present invention can be comprised of not only the information on the nucleotide sequences but also the information on the gene functions revealed by the present invention. Additional information such as names of DNA clones carrying the full-length cDNAs can be recorded or linked together with the sequence data in the databases.

**[0127]** The database of the present invention is useful for gaining complete gene sequence information from partial sequence information of a gene of interest. The database of the present invention comprises nucleotide sequence information of full-length cDNAs. Consequently, by comparing the information in this database with the nucleotide sequence of a partial gene fragment yielded by differential display method or subtraction method, the information on the full-length nucleotide sequence of interest can be gained from the sequence of the partial fragment as a starting clue.

**[0128]** The sequence information of the full-length cDNAs constituting the database of the present invention contains not only the information on the complete sequences but also extra information on expression frequency of the genes as well as homology of the genes to known genes and known proteins. Thus the extra information facilitates rapid functional analyses of partial gene fragments. Further, the information on human genes is accumulated in the database of the present invention, and therefore, the database is useful for isolating a human homologue of a gene originating from other species. The human homologue can be isolated based on the nucleotide sequence of the gene from the original species.

**[0129]** At present, information on a wide variety of gene fragments can be obtained by differential display method and subtraction method. In general, these gene fragments are utilized as tools for isolating the full-length sequences thereof. When the gene fragment corresponds to an already-known gene, the full-length sequence is easily obtained by comparing the partial sequence with the information in known databases. However, when there exists no information corresponding to the partial sequence of interest in the known databases, cDNA cloning should be carried out for the full-length cDNA. It is often difficult to obtain the full-length nucleotide sequence using the partial sequence information as an initial clue. If the full-length of the gene is not available, the amino acid sequence of the protein encoded by the gene remains unidentified. Thus the database of the present invention can contribute to the identification of full-length cDNAs corresponding to gene fragments, which cannot be revealed by using databases of known genes.

**[0130]** The present invention has provided 5602 novel full-length cDNA clones, and primers for synthesizing the cDNA. As has not yet proceeded the isolation of full-length cDNA within the human, the invention has great significance. The full-length cDNA clones contain the translation initiation site, and thus provide a useful information for analysis of protein functions.

**[0131]** The cDNA clones are assumed to encode proteins such as secretory proteins, membrane proteins, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., which have important functions in vivo, and also predicted to be associated with many diseases. The genes and proteins associated with diseases are useful for developing a diagnostic marker or medicines for regulation of their expression and activity, or as a target of gene therapy.

**[0132]** The invention is illustrated more specifically with reference to the following examples, but is not to be construed as being limited thereto.

#### EXAMPLE 1

Construction of a cDNA library by the oligo-capping method.

**[0133]** The NT-2 neuron progenitor cells (Stratagene), a teratocarcinoma cell line from human embryo testis, which can differentiate into neurons by the treatment with retinoic acid were used.

The NT-2 cells were cultured according to the manufacturer's instructions as follows.

- (1) NT-2 cells were cultured without induction by retinoic acid treatment (NT2RM1, NT2RM2, NT2RM4).
- (2) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured for 48 hours (NT2RP1).

(3) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured for 2 weeks (NT2RP2, NT2RP3, NT2RP4, NT2RP5).

[0134] Also, the human neuroblastoma cell line SK-N-MC (ATCC HTB-10) (SKNMC1), and human retinoblastoma cell line Y79 (ATCC HTB-18) (Y79AA1) were cultured according to the culture conditions described in the ATCC catalogue (<http://www.atcc.org/>). The cells were harvested separately, and mRNA was extracted from each cell by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)<sup>+</sup>RNA was purified from the mRNA using oligo-dT cellulose.

[0135] Similarly, human placenta (PLACE1, PLACE2, PLACE3, PLACE4), human ovary cancer tissue (OVARC1), tissues from human embryo at 10 weeks, which is enriched with head (HEMBA1), or body (HEMBB1), human mammary gland (MAMMA1), human thyroid gland (THYRO1), and primary cultured cells of human blood vessel endothelium (VESEN1) were used to extract mRNA by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)<sup>+</sup>RNA was purified from the mRNA using oligo-dT cellulose.

[0136] Each poly(A)<sup>+</sup>RNA was used to construct a cDNA library by the oligo-capping method (Maruyama M. and Sugano S. (1994) Gene, 138: 171-174). Using the Oligo-cap linker (SEQ ID NO: 10464) and the Oligo-dT primer (SEQ ID NO: 10465), bacterial alkaline phosphatase (BAP) treatment, tobacco acid phosphatase (TAP) treatment, RNA ligation, the first strand cDNA synthesis, and removal of RNA were performed as described in the reference (Suzuki and Kanno (1996) Protein Nucleic acid and Enzyme, 41: 197-201; Suzuki Y. et al. (1997) Gene, 200: 149-156). Next, 5'- and 3'-PCR primers (SEQ ID NO: 10466, and 10467, respectively) were used for performing PCR to convert the cDNA into double stranded cDNA, which was then digested with SfiI. Then, the DraIII-cleaved pUC19FL3 vector (Figure 1; for NT2RM1, and NT2RP1), or the DraIII-cleaved pME18SFL3 (Figure 1) (GenBank AB009864, expression vector; for NT2RM2, NT2RM4, NT2RP2, NT2RP3, NT2RP4, NT2RP5, SKNMC1, Y79AA1, PLACE1, PLACE2, PLACE3, PLACE4, OVARC1, HEMBA1, HEMBB1, MAMMA1, THYRO1, and VESEN1) was used for cloning the cDNA in a unidirectional manner, and cDNA libraries were obtained. The nucleotide sequence of the 5'- and 3'- ends of the cDNA clones was analyzed with a DNA sequencer (ABI PRISM 377, PE Biosystems) after sequencing reactions were performed with the DNA sequencing reagents (Dye Terminator Cycle Sequencing FS Ready Reaction Kit, dRhodamine Terminator Cycle Sequencing FS Ready Reaction Kit, or BigDye Terminator Cycle Sequencing FS Ready Reaction Kit, PE Biosystems), according to the instructions. The data were compiled into a database.

[0137] The full-length-enriched cDNA libraries except those for NT2RM1 and NT2RP1 were constructed using eukaryotic expression vector pME18SFL3. The vector contains SR $\alpha$  promoter and SV40 small t intron in the upstream of the cloning site, and SV40 polyA added signal sequence site in the downstream. As the cloning site of pME18SFL3 has asymmetrical DraIII sites, and the ends of cDNA fragments contain SfiI sites complementary to the DraIII sites, the cloned cDNA fragments can be inserted into the downstream of the SR $\alpha$  promoter unidirectionally. Therefore, clones containing full-length cDNA can be expressed transiently by introducing the obtained plasmid directly into COS cells. Thus, the clones can be analyzed very easily in terms of the proteins that are the gene products of the clones, or in terms of the biological activities of the proteins.

[0138] Herein, the cDNA libraries and the name of each clone are related as shown in Table 3. Therein, "xxxxxx" represents the clone number of six digits. Thus, the sequences are named by the library name, the clone number plus F- for the 5'-end, or R- for the 3'-end.

Table 3

library: clone	5'-end sequence	3'-end sequence
<b>NT2RM1:</b>		
NT2RM1xxxxxx	F-NT2RM1xxxxxx	
<b>NT2RP1:</b>		
NT2RP1xxxxxx	F-NT2RP1xxxxxx	
<b>NT2RM2:</b>		
NT2RM2xxxxxx	F-NT2RM2xxxxxx	R-NT2RM2xxxxxx
<b>NT2RM4:</b>		
NT2RM4xxxxxx	F-NT2RM4xxxxxx	R-NT2RM4xxxxxx

	NT2RP2:			
	NT2RP2xxxxxx	F-NT2RP2xxxxxx	R-NT2RP2xxxxxx	
5	NT2RP3:			
	NT2RP3xxxxxx	F-NT2RP3xxxxxx	R-NT2RP3xxxxxx	
	NT2RP4:			
	NT2RP4xxxxxx	F-NT2RP4xxxxxx	R-NT2RP4xxxxxx	
10	NT2RP5:			
	NT2RP5xxxxxx	F-NT2RP5xxxxxx	R-NT2RP5xxxxxx	
	SKNMC1:			
	SKNMC1xxxxxx	F-SKNMC1xxxxxx	R-SKNMC1xxxxxx	
15	Y79AA1:			
	Y79AA1xxxxxx	F-Y79AA1xxxxxx	R-Y79AA1xxxxxx	
	PLACE1:			
	PLACE1xxxxxx	F-PLACE1xxxxxx	R-PLACE1xxxxxx	
20	PLACE2:			
	PLACE2xxxxxx	F-PLACE2xxxxxx	R-PLACE2xxxxxx	
	PLACE3:			
	PLACE3xxxxxx	F-PLACE3xxxxxx	R-PLACE3xxxxxx	
25	PLACE4:			
	PLACE4xxxxxx	F-PLACE4xxxxxx	R-PLACE4xxxxxx	
	OVARC1:			
	OVARC1xxxxxx	F-OVARC1xxxxxx	R-OVARC1xxxxxx	
30	HEMBA1:			
	HEMBA1xxxxxx	F-HEMBA1xxxxxx	R-HEMBA1xxxxxx	
	HEMBB1:			
	HEMBB1xxxxxx	F-HEMBB1xxxxxx	R-HEMBB1xxxxxx	
35	MAMMA1:			
	MAMMA1xxxxxx	F-MAMMA1xxxxxx	R-MAMMA1xxxxxx	
	THYR01:			
	THYR01xxxxxx	F-THYR01xxxxxx	R-THYR01xxxxxx	
40	VESEN1:			
	VESEN1xxxxxx	F-VESEN1xxxxxx	R-VESEN1xxxxxx	

**EXAMPLE 2**

Estimation of the fullness ratio at the 5'-ends of the clones contained in the cDNA libraries constructed by the oligo-capping method.

[0139] The fullness ratio at the 5'-end sequence of the 59,823 clones in the human cDNA libraries constructed by the oligo-capping method was determined as follows. Of all the clones whose 5'-end sequences were found in those of known human mRNA in the public database, a clone was judged to be "full-length", if it had a longer 5'-end sequence than that of the known human mRNA, or, even though the 5'-end sequence was shorter, if it contained the translation initiation codon. A clone which did not contain the translation initiation codon was judged to be "not-full-length". The fullness ratio ((the number of full-length clones)/(the number of full-length and not-full-length clones)) at the 5'-end of the cDNA clones from each library was determined by comparing with the known human mRNA. As a result, the fullness

ratio of the 5'-ends was 63.5%. The result indicates that the fullness ratio at the 5'-end sequence was extremely high.

### EXAMPLE 3

Assessment of the fullness ratio of the 5'-end of the cDNA by the ATGpr and the ESTiMateFL.

**[0140]** The ATGpr, developed by Salamov A.A., Nishikawa T., and Swindells M.B. in the Helix Research Institute, is a program for prediction of the translation initiation codon based on the characteristics of the sequences in the vicinity of the ATG codon. The results are shown with expectations (also described as ATGpr1 below) that an ATG is a true initiation codon (0.05-0.94) (can be described as ATGpr1). When the program was applied to the 5'-end sequences of the clones from the cDNA library that was obtained by the oligo-capping method and that had 65% fullness ratio, the sensitivity and specificity of estimation of a full-length clone (clone containing the N-terminal end of ORF) were improved to 82-83% by selecting only clones having the ATGpr1 score 0.6 or higher.

**[0141]** Furthermore, the program was used to assess the fullness of 18,959 clones in the human libraries obtained here, which have 5'-ends matched to a known human mRNA.

**[0142]** Briefly, the maximal ATGpr1 score of the clones was determined, and then their 5'-end sequence was compared with the known human mRNA to estimate whether the clone is full-length or not. The result is shown in Table 4.

**[0143]** Based on the knowledge that known mRNAs, in general, are highly expressed in the cell, similar estimation was performed with genes having a low number in the EST hit, which represent relatively low abundant mRNAs, and the result is shown in Table 5.

**[0144]** In the table, the number of full-length clones indicate that of clones containing the N-terminal end of ORF, and so does the number of not-full-length clones that of clones without the N-terminal end of ORF. The fullness ratio represents (the number of full-length clones)/(the number of full-length clones plus the number of not-full-length clones).

Table 4

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having a matched 5'-end with that of a known mRNA.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	11,193	9,346	83.5%
>=0.50	13,369	10,549	78.9%
>=0.30	15,489	11,340	73.2%
>=0.15	17,394	11,811	67.9%
>=0.00	18,959	12,046	63.5%

Table 5

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of the clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having 5 EST hits or less among the clones having a matched 5'-end with that of a known mRNA.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	2,801	1,934	69.0%
>=0.50	3,683	2,393	65.0%
>=0.30	4,683	2,707	57.8%
>=0.15	5,559	2,890	52.0%
>=0.00	6,113	3,013	49.8%

**[0145]** Next, the ESTiMateFL was used for the estimation. The ESTiMateFL, developed by Nishikawa and Ota in the Helix Research Institute, is a method for the selection of a clone with high fullness ratio by comparing with the 5'-end or 3'-end sequences of ESTs in the public database.

**[0146]** By the method, a cDNA clone is judged to be most likely not to be full-length if there exist any ESTs which

have longer 5'-end or 3'-end sequences than the clone. The method is systematized for high throughput analysis. A clone is judged to be full-length if the clone has a longer 5'-end sequence than ESTs in the public database. Even if a clone has a shorter 5'-end, the clone is judged to be full-length if the difference in length is within 50 bases, and otherwise judged not to be full-length, for convenience.

[0147] In case of the clones whose 5'-end sequence is matching with the known mRNA, 80% of the clones judged to be full-length by comparing with ESTs was also judged to be full-length by comparing with the known mRNA. Also, 80% of the clones judged to be not full-length by comparing with ESTs was also judged to be not full-length by comparing with the known mRNA.

[0148] The precision of the estimation by comparing with ESTs is improved with increasing number of ESTs to be compared. However, in case that a limited number of ESTs are available, the reliability becomes low. Thus, the method is effective in excluding clones with high probability of being not full-length, from the cDNA clones that is synthesized by the oligo-capping method and that have the 5'-end sequences with about 60 % fullness ratio. In particular, the ESTMateFL is efficiently used to estimate the fullness ratio at the 3'-end sequence of cDNA of a human unknown mRNA which has a significant number of EST deposits in the public database.

[0149] The 18,959 clones isolated from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, were estimated by using the ATGpr and ESTMateFL. Briefly, the 5'-end sequence of the respective clone was analyzed to obtain the maximal ATGpr1 score, and compared with the ORF of the known human mRNA that matches with it to determine whether the clone is full-length or not. Then, the 5'-end sequence of the respective clone was analyzed by the ESTMateFL to judge whether the clone is full-length or not. Specifically, the 5'-end sequences of the 18,959 clones were compared with those of ESTs by the ESTMateFL and the clones other than those that are not full-length were selected. Then, the selected clones were used to analyze the relationship between the ATGpr and the fullness ratio. The result was summarized in Table 6. Also, among the selected, the clones in which the number of the EST hit is not more than 5 were selected and analyzed. The result was summarized in Table 7, which represents the result of the analysis of mRNA with relatively low abundance.

[0150] Therein, the number of being full-length, the number of being not full-length, and the fullness ratio indicate the number of the clones that contain the N-terminus of the ORF, the number of the clones that do not contain the N-terminus of the ORF, and (the number of being full-length)/(the number of being full-length) plus (the number of being not full-length), respectively.

Table 6

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequence in the clones isolated from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, and also other than those being not full-length according to the comparison with ESTs.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	9,068	8,349	92.1%
>=0.50	10,345	9,318	90.1%
>=0.30	11,425	9,964	87.2%
>=0.15	12,254	10,335	84.3%
>=0.00	12,785	10,484	82.0%

Table 7

Maximal ATGpr1 score and fullness ratio of the 5'-end sequence of the clones, which were isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA, in which the number of the EST hit is not more than 5.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	1,959	1,510	77.1%
>=0.50	2,469	1,821	73.8%
>=0.30	2,975	2,046	68.8%
>=0.15	3,368	2,164	64.3%

Table 7 (continued)

Maximal ATGpr1 score and fullness ratio of the 5'-end sequence of the clones, which were isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA, in which the number of the EST hit is not more than 5.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.00	3,661	2,226	60.8%

[0151] The 19,226 clones, isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to that of a known human mRNA were estimated by the ATGpr2, and the correlation between the score and the fullness ratio was estimated. Specifically, the maximal ATGpr2 score of the clones identical to a known human mRNA was determined, and then their fullness ratio was estimated by comparing the 5'-ends with ORF of known human mRNA. The result was shown in Table 8.

Table 8

Maximal ATGpr2 score and fullness ratio of the 5'-end sequence of the clones, which are isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA.			
maximal ATGpr2 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.30	10,748	8,031	74.7%
>=0.15	16,383	11,226	68.5%
>=0.00	19,226	12,285	63.9%

[0152] According to the above results, it was found that, in case of using clones isolated from human cDNA libraries constructed by the oligo-capping method, the fullness ratio of the clones that have low score in the ATGpr can be improved by estimating their 5'-end sequence using the combination of the ATGpr and the ESTMateFL. Therefore, the method was applied to select a cDNA clone with high fullness ratio.

#### EXAMPLE 4

Clustering of the 5'-end and 3'-end sequences of cDNA clones.

[0153] The 5'-end and 3'-end sequences of cDNA clones were obtained, and clustered separately. The single pass data of the nucleotide sequence of the 5'-end and 3'-end was subject to the BLAST search between the sequence data of all the clones synthesized in example 1, and the clones considered to be originating from the same gene were put together into a group. If the 5'-end of a clone contains the consensus sequence of 300 bases or more with identity 95% or more, or the 3'-end contains the consensus sequence of 200 bases or more and having identity 90% or more, the clones were put in the same group.

[0154] The groups of the 5'-end sequence and the 3'-end sequence were further clustered so as that the groups from the same clone can be in the same group (cluster).

#### EXAMPLE 5

Characterization of the cloned sequence.

[0155] The data of the 5'-end sequence of the cloned sequence was characterized by the following way:

- (1) examining whether it is identical to those of mRNA from human and other species (including authorized sequences) and human EST by the BLAST homology search of the GenBank,
- (2) examining whether it has longer 5'-end than those of human mRNA and human EST,
- (3) determining the scores in the ATGpr1 and ATGpr2 programs of all the initiation codons in the 5'-end sequence, and



(4) determining the number of the human EST clone(s) that is judged to be identical by the BLAST homology search of the GenBank.

[0156] The data of the 3'-end sequence of the cloned sequence was characterized by the above (1) and (4).

[0157] These characterized data were used for the final selection of the clones.

#### EXAMPLE 6

Identity to the human mRNA and human EST, and comparison of the length of the 5'-end.

[0158] The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those of mRNA from human or other species when the sequence to compare has the length of 200 bases or longer, and the obtained homology is 94% or more. The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those of human EST when the sequence to compare has the length of 200 bases or longer, and the obtained homology is 90% or more.

[0159] The sequence of the clone was judged to be full-length in comparison with human mRNA when the sequence has longer 5'-end, or it contains the translation initiation site. The sequence of the clone was judged to be full-length in comparison with human EST in the database when the sequence has longer 5'-end, or while it has shorter end, the difference in length between the two sequences is 50 bases or less. The other clones were judged to be not full-length.

#### EXAMPLE 7

Prediction of the fullness ratio by the ATGPr.

[0160] The score in the ATGPr1 is the expectation to be full-length based on calculations, and the higher score reflects the higher probability to be full-length as shown in Example 3. The maximal ATGPr1 score and the maximal ATGPr2 score represent the score obtained with all the initiation codons contained in the 5'-end sequence of the cloned sequence, and were used for the characterization.

#### EXAMPLE 8

Prediction of the novelty using the number of the identical ESTs by the homology search.

[0161] For both the 5'-end and 3'-end sequences of the clones, the number of the identical ESTs was determined by the homology search on the GenBank. Human ESTs were judged to be identical when the EST has a sequence of 200 nucleotides or more with 90% or more matching with the 5'-end sequence. The number of the identical ESTs were used for characterization and as an index of novelty. The clone having not identical sequence at the 5'-end and 3'-end sequences to those of mRNA as well as those of ESTs is a gene encoding a novel protein. Similarly, a clone having either the 5'-end or the 3'-end sequences, which has low number of the identical ESTs, is judged to be a gene encoding a novel protein.

#### EXAMPLE 9

Characterization of clusters.

[0162] The clusters of the groups of the 5'-end and 3'-end sequences were characterized according to the following criteria.

(1) Whether it is identical to the mRNA sequences from human or other species (including authorized sequences), or human ESTs by the BLAST search of the GenBank.

A cluster containing at least one sequence of all the 5'-end and 3'-end sequences, which is identical to one of the mRNA sequences, was regarded to be the same cluster of the mRNA sequence.

(2) Whether it has longer 5'-end than human mRNA sequence and human ESTs.

When all the 5'-end sequences contained in a cluster are judged to be not full-length compared with the mRNA sequences and human ESTs, the cluster was regarded as being not full-length.

(3) The scores in the ATGPr1 and ATGPr2 using all the initiation codons contained in the 5'-end sequences.

The maximal ATGPr1 score among those of all the 5'-end sequences in a cluster was determined as the ATGPr1 score of the cluster. The ATGPr2 score of the cluster was also determined in the same way.

(4) The number of the identical human ESTs determined by the BLAST search of the GenBank.

**[0163]** The maximum number was determined in the numbers of ESTs identical to each of 5'-end sequences contained in a cluster. The number of the ESTs identical to the 5'-end sequences in the cluster was defined as the maximum number. The number of the ESTs identical to the 3'-end sequences in a cluster was determined in the same way.

#### EXAMPLE 10

Methods for selection of the clusters by the characteristics.

**[0164]** Data obtained by the characterization described above was used to discard the clusters that are identical to any mRNA sequence from human and other species (including authorized sequences), or those clusters that are not full-length. From the rest of the clusters, the clusters that fulfill any of the following conditions were selected.

- (a) A cluster in which the number of the identical ESTs for the 5'-end sequence is 20 or less, and the ATGpr1 score exceeds 0.3.
- (b) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for both the 5'-end sequence and the 3'-end sequence is 5 or less, and multiple clones are contained.
- (c) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is 0, and the number of the identical ESTs for the 3'-end sequence is not less than 1.
- (d) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is not less than 1 and not more than 5, and the number of the identical ESTs for the 3'-end sequence is 0.

**[0165]** The clusters selected by (a) contain at least one clone that is novel and having high fullness ratio. The clusters selected by (b), (c), and (d) contain at least one clone that is novel and having low fullness ratio, but is still full-length.

#### EXAMPLE 11

Methods for selection of clones from clusters.

**[0166]** In the clusters comprising a single clone, the clone was selected.

**[0167]** In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score higher than 0.3, a clone with the highest score was selected.

**[0168]** In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score not more than 0.3, a clone with the highest ATGpr2 score was selected, if the score was higher than 0.3.

**[0169]** In the clusters comprising multiple clones, in which the clones have the scores not more than 0.3 in both the ATGpr1 and the ATGpr2, a clone with the highest scores in both the ATGpr1 and ATGpr2 was selected.

**[0170]** In the clusters comprising multiple clones, in which the above selection by the ATGpr score was not applicable, selected was a clone having longer 5'-end by assembling the 5'-end sequence, 3'-end sequence, and human ESTs. For assembling, the Sequencher™ (Hitachi Soft Engineering) was used. When even the selection by assembling failed, all the clones were judged to be full-length.

**[0171]** As a result, 3690 clones were the clones that have the maximal ATGpr1 score higher than 0.3. On the other hand, 477 clones were the clones that have the maximal ATGpr1 score not more than 0.3, and the maximal ATGpr2 score higher than 0.3. The number of the clones having the highest scores in both the ATGpr1 and ATGpr2, while the scores were not more than 0.3, were 97. The number of the clones which were not selected by the ATGpr scores, but were selected by assembling the 5'-end sequence, 3'-end sequence, and human ESTs, were 117. The clones that have the score in both the ATGpr1 and ATGpr2 not more than 0.3, but were selected because the cluster comprises a single clone, were 1166. In the clones, at least either of the 5'-end or 3'-end sequence was not identical to any of human ESTs. Some clones were selected because the cluster comprises a single clone, or by assembling, in which there is no ATG codon (9 clones: HEMBA1001960, HEMBA106569, HEMBB1001454, NT2PR2002839, NT2RP2005325, NT2RP2006323, PLACE1004506, PLACE1005526, and THYRO1001177). The sequences that do not contain the ATG codon were considered to be corresponding to the 5'-UTR. Although the clones do not have the scores in the ATGpr1 and ATGpr2, the clones were yet judged to be full-length according to the fullness ratio, as shown in Table 4, 5, 6, 7, and 8. The above clones that were finally judged to be full-length were classified into 11 groups according to the following criteria.

Group (1): 1516 clones

Among the 3690 clones having the maximal ATGpr1 score higher than 0.3, the following 1516 clones were having

high fullness ratio and a novel clone, in which at least either of the 5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

	HEMBA1000046	HEMBA1000050	HEMBA1000129	HEMBA1000150	HEMBA1000158	HEMBA1000193
	HEMBA1000201	HEMBA1000216	HEMBA1000227	HEMBA1000288	HEMBA1000290	HEMBA1000303
5	HEMBA1000304	HEMBA1000369	HEMBA1000392	HEMBA1000396	HEMBA1000488	HEMBA1000505
	HEMBA1000508	HEMBA1000534	HEMBA1000542	HEMBA1000594	HEMBA1000637	HEMBA1000657
	HEMBA1000752	HEMBA1000867	HEMBA1000869	HEMBA1000872	HEMBA1000910	HEMBA1000918
	HEMBA1000919	HEMBA1000942	HEMBA1000968	HEMBA1000975	HEMBA1000986	HEMBA1001022
	HEMBA1001043	HEMBA1001052	HEMBA1001080	HEMBA1001085	HEMBA1001109	HEMBA1001140
10	HEMBA1001174	HEMBA1001235	HEMBA1001286	HEMBA1001302	HEMBA1001398	HEMBA1001407
	HEMBA1001415	HEMBA1001446	HEMBA1001476	HEMBA1001497	HEMBA1001510	HEMBA1001533
	HEMBA1001570	HEMBA1001581	HEMBA1001635	HEMBA1001640	HEMBA1001647	HEMBA1001661
	HEMBA1001731	HEMBA1001744	HEMBA1001746	HEMBA1001800	HEMBA1001815	HEMBA1001822
	HEMBA1001866	HEMBA1001896	HEMBA1001910	HEMBA1001937		
15	HEMBA1002018	HEMBA1002035	HEMBA1002049	HEMBA1002092	HEMBA1002119	HEMBA1002125
	HEMBA1002161	HEMBA1002177	HEMBA1002189	HEMBA1002191	HEMBA1002199	HEMBA1002222
	HEMBA1002237	HEMBA1002265	HEMBA1002363	HEMBA1002417	HEMBA1002419	HEMBA1002430
	HEMBA1002439	HEMBA1002477	HEMBA1002503	HEMBA1002508	HEMBA1002515	HEMBA1002547
	HEMBA1002688	HEMBA1002703	HEMBA1002746	HEMBA1002750	HEMBA1002850	HEMBA1002973
20	HEMBA1003021	HEMBA1003067	HEMBA1003077	HEMBA1003078	HEMBA1003079	HEMBA1003117
	HEMBA1003129	HEMBA1003175	HEMBA1003199	HEMBA1003235	HEMBA1003250	HEMBA1003257
	HEMBA1003291	HEMBA1003322	HEMBA1003327	HEMBA1003370	HEMBA1003380	HEMBA1003395
	HEMBA1003402	HEMBA1003461	HEMBA1003480	HEMBA1003538	HEMBA1003545	HEMBA1003556
	HEMBA1003581	HEMBA1003621	HEMBA1003645	HEMBA1003667	HEMBA1003720	HEMBA1003760
25	HEMBA1003799	HEMBA1003807	HEMBA1003827	HEMBA1003836	HEMBA1003866	HEMBA1003879
	HEMBA1003880	HEMBA1003985	HEMBA1003989			
	HEMBA1004011	HEMBA1004048	HEMBA1004056	HEMBA1004074	HEMBA1004133	HEMBA1004146
	HEMBA1004150	HEMBA1004199	HEMBA1004200	HEMBA1004238	HEMBA1004246	HEMBA1004275
	HEMBA1004286	HEMBA1004289	HEMBA1004321	HEMBA1004327	HEMBA1004335	HEMBA1004341
30	HEMBA1004372	HEMBA1004389	HEMBA1004479	HEMBA1004499	HEMBA1004507	HEMBA1004542
	HEMBA1004554	HEMBA1004573	HEMBA1004596	HEMBA1004632	HEMBA1004697	HEMBA1004705
	HEMBA1004709	HEMBA1004711	HEMBA1004736	HEMBA1004751	HEMBA1004752	HEMBA1004753
	HEMBA1004756	HEMBA1004758	HEMBA1004768	HEMBA1004771	HEMBA1004795	HEMBA1004806
	HEMBA1004850	HEMBA1004863	HEMBA1004889	HEMBA1004923	HEMBA1004929	HEMBA1004930
35	HEMBA1004944	HEMBA1004972	HEMBA1004980	HEMBA1005019	HEMBA1005035	HEMBA1005050
	HEMBA1005066	HEMBA1005075	HEMBA1005079	HEMBA1005083	HEMBA1005113	HEMBA1005133
	HEMBA1005149	HEMBA1005219	HEMBA1005331	HEMBA1005338	HEMBA1005367	HEMBA1005411
	HEMBA1005468	HEMBA1005469	HEMBA1005517	HEMBA1005518	HEMBA1005526	HEMBA1005548
	HEMBA1005576	HEMBA1005583	HEMBA1005595	HEMBA1005609	HEMBA1005685	HEMBA1005732
40	HEMBA1005755	HEMBA1005813	HEMBA1005815	HEMBA1005834	HEMBA1005894	HEMBA1005963
	HEMBA1005991					
	HEMBA1006031	HEMBA1006100	HEMBA1006121	HEMBA1006138	HEMBA1006173	HEMBA1006182
	HEMBA1006198	HEMBA1006252	HEMBA1006272	HEMBA1006278	HEMBA1006291	HEMBA1006293
	HEMBA1006344	HEMBA1006349	HEMBA1006377	HEMBA1006381	HEMBA1006398	HEMBA1006424
45	HEMBA1006467	HEMBA1006474	HEMBA1006483	HEMBA1006492	HEMBA1006494	HEMBA1006497
	HEMBA1006502	HEMBA1006530	HEMBA1006579	HEMBA1006583	HEMBA1006643	HEMBA1006674
	HEMBA1006682	HEMBA1006709	HEMBA1006717	HEMBA1006737	HEMBA1006754	HEMBA1006758
	HEMBA1006767	HEMBA1006795	HEMBA1006796	HEMBA1006807	HEMBA1006832	HEMBA1006900
	HEMBA1006973	HEMBA1006976	HEMBA1006993	HEMBA1006996	HEMBA1007002	HEMBA1007052
50	HEMBA1007062	HEMBA1007066	HEMBA1007151	HEMBA1007203	HEMBA1007281	HEMBA1007300
	HEMBA1007320	HEMBA1007342				
	HEMBA1000008	HEMBA1000024	HEMBA1000025	HEMBA1000083	HEMBA1000103	HEMBA1000173
	HEMBA1000175	HEMBA1000198	HEMBA1000240	HEMBA1000244	HEMBA1000338	HEMBA1000339
	HEMBA1000391	HEMBA1000438	HEMBA1000510	HEMBA1000550	HEMBA1000556	HEMBA1000589
55	HEMBA1000591	HEMBA1000593	HEMBA1000632	HEMBA1000671	HEMBA1000673	HEMBA1000693
	HEMBA1000706	HEMBA1000725	HEMBA1000781	HEMBA1000810	HEMBA1000826	HEMBA1000835
	HEMBA1000848	HEMBA1000852	HEMBA1000870	HEMBA1000887	HEMBA1000908	HEMBA1000927
	HEMBA1000947	HEMBA1000973	HEMBA1000991	HEMBA1001011	HEMBA1001014	HEMBA1001020

	HEMBB1001024,	HEMBB1001058,	HEMBB1001096,	HEMBB1001105,	HEMBB1001126,	HEMBB 1001169,
	HEMBB1001199,	HEMBB1001314,	HEMBB1001339,	HEMBB1001346,	HEMBB1001364,	HEMB B1001369,
	HEMBB1001394,	HEMBB1001410,	HEMBB1001426,	HEMBB1001449,	HEMBB1001482,	HEM BB1001531,
	HEMBB1001562,	HEMBB1001564,	HEMBB1001585,	HEMBB1001635,	HEMBB1001653,	HE MBB1001665,
5	HEMBB1001668,	HEMBB1001685,	HEMBB1001707,	HEMBB1001760,	HEMBB1001785,	H EMBB1001812,
	HEMBB1001816,	HEMBB1001831,	HEMBB1001834,	HEMBB1001839,	HEMBB1001872,	HEMBB1001874,
	HEMBB1001908,	HEMBB1001910,	HEMBB1001915,	HEMBB1001950,	HEMBB1001957,	HEMBB1001962,
	HEMBB1002044,	HEMBB1002050,	HEMBB1002068,	HEMBB1002142,	HEMBB1002152,	HEMBB1002193,
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 20 PLACE4000465, PLACE4000487, PLACE4000489, PLACE4000521, PLACE4000522, PLACE4000 590,  
 PLACE4000612, PLACE4000638, PLACE4000654,  
 SKNMC1000011, SKNMC1000013, THYRO1000034, THYRO1000070, THYRO1000072, THYRO1000107,  
 THYRO1000124, THYRO1000163, THYRO1000253, THYRO1000343, THYRO1000381, THYRO100038 7,  
 THYRO1000395, THYRO1000501, THYRO1000505, THYRO1000637, THYRO1000666, THYRO10006 76,  
 25 THYRO1000684, THYRO1000734, THYRO1000787, THYRO1000916, THYRO1000934, THYRO1000 951,  
 THYRO1001033, THYRO1001100, THYRO1001142, THYRO1001189, THYRO1001213, THYRO100 1320,  
 THYRO1001374, THYRO1001403, THYRO1001458, THYRO1001487, THYRO1001602, THYRO100 01605,  
 THYRO1001637, THYRO1001656, THYRO1001738, THYRO1001809, THYRO1001828, THYRO1A 000131,  
 Y79AA1000268, Y79AA1000349, Y79AA1000355, Y79AA1000627, Y79AA1000824, Y79AA 1000827,  
 30 Y79AA1000850, Y79AA1000962, Y79AA1000976, Y79AA1001068, Y79AA1001145, Y79A A1001185,  
 Y79AA1001233, Y79AA1001299, Y79AA1001391, Y79AA1001541, Y79AA1001555, Y79 AA1001581,  
 Y79AA1001613, Y79AA1001846, Y79AA1001866, Y79AA1001874, Y79AA1002115, Y7 9AA1002139,  
 Y79AA1002229, Y79AA1002246, Y79AA1002298, Y79AA1002361, Y79AA1002399, Y 79AA1002431,  
 Y79AA1002433, Y79AA1002472, Y79AA1002482,

# Group (2): 377 clones

Among the 3690 clones, the following 377 clones were full-length, and a novel clone, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000156, HEMBA1000231, HEMBA1000244, HEMBA1000302, HEMBA1000523, HEMBA1000531,  
 40 HEMBA1000555, HEMBA1000568, HEMBA1000971, HEMBA1001009, HEMBA1001133, HEMBA100113 7,  
 HEMBA1001257, HEMBA1001281, HEMBA1001289, HEMBA1001310, HEMBA1001377, HEMBA10013 88,  
 HEMBA1001413, HEMBA1001455, HEMBA1001579, HEMBA1001702, HEMBA1001781, HEMBA1001 804,  
 HEMBA1001819, HEMBA1001864, HEMBA1001869, HEMBA1001912, HEMBA1001915, HEMBA100 2084,  
 HEMBA1002102, HEMBA1002212, HEMBA1002495, HEMBA1002513, HEMBA1002863, HEMBA10 02395,  
 45 HEMBA1002970, HEMBA1002971, HEMBA1002997, HEMBA1002999, HEMBA1003035, HEMBA1 003041,  
 HEMBA1003433, HEMBA1003568, HEMBA1003680, HEMBA1003692, HEMBA1003804, HEMBA 1003893,  
 HEMBA1003953, HEMBA1004097, HEMBA1004207, HEMBA1004502, HEMBA1004560, HEMB A1004638,  
 HEMBA1004693, HEMBA1004973, HEMBA1004977, HEMBA1005223, HEMBA1005244, HEM BA1005314,  
 HEMBA1005680, HEMBA1005737, HEMBA1005746, HEMBA1005822, HEMBA1005891, HEMBA1006445,  
 50 HEMBA1006535, HEMBA1006566, HEMBA1006877, HEMBA1006936, HEMBA1007178, HEMBA1007251,  
 HEMBA1007267,  
 HEMBB1000030, HEMBB1000215, HEMBB1000226, HEMBB1000449, HEMBB1000789, HEMBB1000975,  
 HEMBB1001153, HEMBB1001175, HEMBB1001234, HEMBB1001387, HEMBB1001905, HEMBB100190 6,  
 HEMBB1002300, HEMBB1002383, HEMBB1002489, HEMBB1002607, HEMBB1002705, MAMMA1000257,  
 55 MAMMA1000416, MAMMA1000831, MAMMA1000841, MAMMA1001021, MAMMA1001041, MAMMA1001105,  
 MAMMA1001139, MAMMA1001198, MAMMA1001730, MAMMA1001837, MAMMA1002219 8, MAMMA1002209,  
 MAMMA1002219, MAMMA1002292, MAMMA1002297, MAMMA1002637, MAMMA10026 50, MAMMA1002796,  
 MAMMA1002987, MAMMA1003135, MAMMA1003150,

	NT2RM1001008,	NT2RM2001896,	NT2RM4000024,	NT2RM4000061,	NT2RM4000155,	NT2RM4000169,
	NT2RM4000229,	NT2RM4000290,	NT2RM4000354,	NT2RM4000895,	NT2RM4001032,	NT2RM400104 7,
	NT2RM4001116,	NT2RM4001140,	NT2RM4001200,	NT2RM4001384,	NT2RM4001412,	NT2RM40014 83,
	NT2RM4001715,	NT2RM4001783,	NT2RM4001979,	NT2RM4002034,	NT2RM4002044,	NT2RM4002 145,
5	NT2RM4002344,	NT2RM4002452,				
	NT2RP2000006,	NT2RP2000008,	NT2RP2000054,	NT2RP2000079,	NT2RP2000097,	NT2RP2000126
	NT2RP2000224,	NT2RP2000274,	NT2RP2000764,	NT2RP2000812,	NT2RP2000819,	NT2RP200084 5,
	NT2RP2000863,	NT2RP2000880,	NT2RP2001127,	NT2RP2001218,	NT2RP2001233,	NT2RP200113 94,
	NT2RP2001420,	NT2RP2001576,	NT2RP2001597,	NT2RP2001721,	NT2RP2001907,	NT2RP2002 046,
10	NT2RP2002312,	NT2RP2002325,	NT2RP2002503,	NT2RP2002537,	NT2RP2002862,	NT2RP200 2925,
	NT2RP2002939,	NT2RP2002954,	NT2RP2002986,	NT2RP2003034,	NT2RP2003125,	NT2RP20 03286,
	NT2RP2003293,	NT2RP2003347,	NT2RP2003433,	NT2RP2003445,	NT2RP2003543,	NT2RP2 003781,
	NT2RP2004066,	NT2RP2004316,	NT2RP2004392,	NT2RP2004897,	NT2RP2004999,	NT2RP 2005003,
	NT2RP2005393,	NT2RP2005520,	NT2RP2005722,	NT2RP2005752,	NT2RP2005763,	NT2R P2006023,
15	NT2RP2006186,	NT2RP2006565,				
	NT2RP3000527,	NT2RP3000562,	NT2RP3000590,	NT2RP3000596,	NT2RP3000599,	NT2RP3001004 ,
	NT2RP3001126,	NT2RP3001150,	NT2RP3001392,	NT2RP3001407,	NT2RP3001457,	NT2RP300175 3,
	NT2RP3001929,	NT2RP3001969,	NT2RP3002151,	NT2RP3002303,	NT2RP3002484,	NT2RP30025 90,
	NT2RP3002680,	NT2RP3003078,	NT2RP3003204,	NT2RP3003251,	NT2RP3003411,	NT2RP3003 831,
20	NT2RP3003870,	NT2RP3003876,	NT2RP3004093,	NT2RP3004246,	NT2RP3004253,	NT2RP300 4348,
	NT2RP3004504,	NT2RP3004507,	NT2RP4000312,	NT2RP4000518,	NT2RP4000781,	NT2RP40 00975,
	NT2RP4000997,	NT2RP4002408,	NT2RP5003512,			
	OVARC1000060,	OVARC1000411,	OVARC1000440,	OVARC1000461,	OVARC1000703,	OVARC1000846 ,
	OVARC1000876,	OVARC1000915,	OVARC1001040,	OVARC1001113,	OVARC1001167,	OVARC100117 0,
25	OVARC1001188,	OVARC1001271,	OVARC1001329,	OVARC1001610,	OVARC1001767,	OVARC10018 20,
	OVARC1001879,	OVARC1002138,				
	PLACE1000014,	PLACE1000048,	PLACE1000420,	PLACE1000588,	PLACE1000596,	PLACE1000636,
	PLACE1000755,	PLACE1000786,	PLACE1000849,	PLACE1000909,	PLACE1001000,	PLACE100124 1,
	PLACE1001387,	PLACE1001503,	PLACE1001551,	PLACE1001570,	PLACE1001602,	PLACE10016 10,
30	PLACE1001632,	PLACE1001989,	PLACE1002115,	PLACE1002465,	PLACE1002532,	PLACE1002 851,
	PLACE1002991,	PLACE1002993,	PLACE1003025,	PLACE1003342,	PLACE1003553,	PLACE100 3605,
	PLACE1003669,	PLACE1003723,	PLACE1003738,	PLACE1003762,	PLACE1003783,	PLACE10 04104,
	PLACE1004114,	PLACE1004149,	PLACE1004197,	PLACE1004473,	PLACE1004510,	PLACE1 004645,
	PLACE1004672,	PLACE1004868,				
35	PLACE1005313,	PLACE1005374,	PLACE1005834,	PLACE1005921,	PLACE1005936,	PLACE1005966 ,
	PLACE1006157,	PLACE1006225,	PLACE1006239,	PLACE1006248,	PLACE1006445,	PLACE100653 1,
	PLACE1006626,	PLACE1006731,	PLACE1006901,	PLACE1006961,	PLACE1006966,	PLACE10073 17,
	PLACE1007375,	PLACE1007460,	PLACE1007544,	PLACE1007583,	PLACE1007791,	PLACE1007 843,
	PLACE1007897,	PLACE1008129,	PLACE1008309,	PLACE1008401,	PLACE1008402,	PLACE100 8532,
40	PLACE1008627,	PLACE1008808,	PLACE1008902,	PLACE1008934,	PLACE1009099,	PLACE10 09130,
	PLACE1009166,	PLACE1009659,	PLACE1009665,	PLACE1009708,	PLACE1009794,	PLACE1 009886,
	PLACE1009908,	PLACE1010202,	PLACE1010580,	PLACE1010661,	PLACE1010811,	PLACE1 1010917,
	PLACE1010942,	PLACE1010965,	PLACE1011026,	PLACE1011325,	PLACE1011472,	PLAC E1011563,
	PLACE1011684,	PLACE1011682,	PLACE1011982,	PLACE4000049,	PLACE4000300,	PLA CE4000558,
45	THYRO1000368,	THYRO1000662,	THYRO1000712,	THYRO1000783,	THYRO1000952,	THYRO1000988
	THYRO1001661,	THYRO1001854,	Y79AA1000037,	Y79AA1000059,	Y79AA1000985,	Y79AA100110, 5,
	Y79AA1001177,	Y79AA1001211,	Y79AA1001281,	Y79AA1001533,	Y79AA1001923,	Y79AA10020 83,
	Y79AA1002204,	Y79AA1002407,				
50	Group (3): 1797 clones					
	Among the 3690 clones, the following 1797 clones were full-length, and novel clones, in which the number of the identical human ESTs for the 5'-end sequence is not more than 20 (except clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).					
55	HEMBA1000005,	HEMBA1000012,	HEMBA1000020,	HEMBA1000030,	HEMBA1000076,	HEMBA1000141,
	HEMBA1000168,	HEMBA1000185,	HEMBA1000307,	HEMBA1000327,	HEMBA1000356,	HEMBA100038 7,
	HEMBA1000456,	HEMBA1000460,	HEMBA1000490,	HEMBA1000491,	HEMBA1000501,	HEMBA10005 20,
	HEMBA1000561,	HEMBA1000588,	HEMBA1000591,	HEMBA1000592,	HEMBA1000608,	HEMBA1000 636,



	HEMBA1000682,	HEMBA1000686,	HEMBA1000719,	HEMBA1000727,	HEMBA1000817,	HEMBA100 0851,
	HEMBA1000946,	HEMBA1001008,	HEMBA1001059,	HEMBA1001086,	HEMBA1001122,	HEMBA10 01197,
	HEMBA1001213,	HEMBA1001247,	HEMBA1001303,	HEMBA1001326,	HEMBA1001351,	HEMBA1 001361,
	HEMBA1001387,	HEMBA1001405,	HEMBA1001450,	HEMBA1001526,	HEMBA1001569,	HEMBA1 001595,
5	HEMBA1001620,	HEMBA1001655,	HEMBA1001672,	HEMBA1001711,	HEMBA1001714,	HEMBA 1001723,
	HEMBA1001809,	HEMBA1001824,	HEMBA1001847,	HEMBA1001913,	HEMBA1001921,	HEMBA1001939,
	HEMBA1001950,	HEMBA1001967,				
	HEMBA1002150,	HEMBA1002151,	HEMBA1002215,	HEMBA1002241,	HEMBA1002267,	HEMBA1002341,
	HEMBA1002458,	HEMBA1002460,	HEMBA1002462,	HEMBA1002469,	HEMBA1002475,	HEMBA100254 2,
10	HEMBA1002569,	HEMBA1002583,	HEMBA1002609,	HEMBA1002624,	HEMBA1002696,	HEMBA10027 68,
	HEMBA1002770,	HEMBA1002777,	HEMBA1002779,	HEMBA1002794,	HEMBA1002810,	HEMBA1002 816,
	HEMBA1002818,	HEMBA1002876,	HEMBA1002937,	HEMBA1002939,	HEMBA1002951,	HEMBA100 2954,
	HEMBA1003033,	HEMBA1003046,	HEMBA1003096,	HEMBA1003136,	HEMBA1003148,	HEMBA10 03179,
	HEMBA1003222,	HEMBA1003281,	HEMBA1003286,	HEMBA1003369,	HEMBA1003403,	HEMBA1 003408,
15	HEMBA1003417,	HEMBA1003418,	HEMBA1003447,	HEMBA1003463,	HEMBA1003528,	HEMBA 1003555,
	HEMBA1003560,	HEMBA1003569,	HEMBA1003591,	HEMBA1003615,	HEMBA1003617,	HEMBA 1003646,
	HEMBA1003682,	HEMBA1003679,	HEMBA1003684,	HEMBA1003690,	HEMBA1003711,	HEMBA1003729,
	HEMBA1003742,	HEMBA1003783,	HEMBA1003803,	HEMBA1003805,	HEMBA1003838,	HEMBA1003864,
	HEMBA1003959,	HEMBA1003978,				
20	HEMBA1004055,	HEMBA1004086,	HEMBA1004111,	HEMBA1004131,	HEMBA1004143,	HEMBA1004168,
	HEMBA1004202,	HEMBA1004203,	HEMBA1004227,	HEMBA1004248,	HEMBA1004264,	HEMBA100427 4,
	HEMBA1004276,	HEMBA1004330,	HEMBA1004353,	HEMBA1004408,	HEMBA1004509,	HEMBA10045 34,
	HEMBA1004604,	HEMBA1004610,	HEMBA1004637,	HEMBA1004669,	HEMBA1004725,	HEMBA1004 734,
	HEMBA1004763,	HEMBA1004776,	HEMBA1004847,	HEMBA1004864,	HEMBA1004933,	HEMBA100 4934,
25	HEMBA1004954,	HEMBA1005009,	HEMBA1005029,	HEMBA1005047,	HEMBA1005101,	HEMBA10 05185,
	HEMBA1005201,	HEMBA1005202,	HEMBA1005206,	HEMBA1005252,	HEMBA1005296,	HEMBA1 005382,
	HEMBA1005394,	HEMBA1005403,	HEMBA1005423,	HEMBA1005472,	HEMBA1005474,	HEMBA 1005475,
	HEMBA1005513,	HEMBA1005528,	HEMBA1005530,	HEMBA1005558,	HEMBA1005581,	HEMBA 1005582,
	HEMBA1005621,	HEMBA1005666,	HEMBA1005852,	HEMBA1005990,		
30	HEMBA1006035,	HEMBA1006081,	HEMBA1006091,	HEMBA1006108,	HEMBA1006130,	HEMBA1006155,
	HEMBA1006235,	HEMBA1006248,	HEMBA1006283,	HEMBA1006284,	HEMBA1006309,	HEMBA100631 0,
	HEMBA1006347,	HEMBA1006485,	HEMBA1006507,	HEMBA1006521,	HEMBA1006559,	HEMBA10066 12,
	HEMBA1006624,	HEMBA1006631,	HEMBA1006652,	HEMBA1006659,	HEMBA1006708,	HEMBA1006 789,
	HEMBA1006885,	HEMBA1006914,	HEMBA1006926,	HEMBA1006941,	HEMBA1007018,	HEMBA100 7080,
35	HEMBA1007085,	HEMBA1007087,	HEMBA1007112,	HEMBA1007121,	HEMBA1007149,	HEMBA10 07174,
	HEMBA1007194,	HEMBA1007224,	HEMBA1007243,	HEMBA1007301,	HEMBA1007319,	HEMBA1000018,
	HEMBA1000036,	HEMBA1000037,	HEMBA1000048,	HEMBA1000119,	HEMBA1000136,	HEMBA1000217,
	HEMBA1000266,	HEMBA1000592,	HEMBA1000623,	HEMBA1000630,	HEMBA1000663, 1,	HEMBA1000705,
	HEMBA1000763,	HEMBA1000774,	HEMBA1000807,	HEMBA1000895,	HEMBA10010 56,	HEMBA1001068,
40	HEMBA1001112,	HEMBA1001117,	HEMBA1001137,	HEMBA1001151,	HEMBA1001 182,	HEMBA1001210,
	HEMBA1001242,	HEMBA1001288,	HEMBA1001289,	HEMBA1001294,	HEMBA100 1331,	HEMBA1001384,
	HEMBA1001429,	HEMBA1001603,	HEMBA1001673,	HEMBA1001684,	HEMBA10 01695,	HEMBA1001736,
	HEMBA1001869,	HEMBA1001945,	HEMBA1001947,	HEMBA1001990,	HEMBA1 002134,	HEMBA1002329,
	HEMBA1002342,	HEMBA1002409,	HEMBA1002510,	HEMBA1002550,	HEMBA1 002600,	HEMBA1002697,
45	MAMMA1000055,	MAMMA1000085,	MAMMA1000163,	MAMMA1000173,	MAMMA1000278,	MAMMA1000284,
	MAMMA1000395,	MAMMA1000422,	MAMMA1000429,	MAMMA1000468,	MAMMA1000490,	MAMMA100061 2,
	MAMMA1000625,	MAMMA1000670,	MAMMA1000734,	MAMMA1000738,	MAMMA1000824,	MAMMA10008 59,
	MAMMA1001008,	MAMMA1001059,	MAMMA1001073,	MAMMA1001075,	MAMMA1001202,	MAMMA1001 259,
	MAMMA1001271,	MAMMA1001292,	MAMMA1001476,	MAMMA1001576,	MAMMA1001649,	MAMMA100 1654,
50	MAMMA1001735,	MAMMA1001744,	MAMMA1001754,	MAMMA1001771,	MAMMA1001785,	MAMMA10 01812,
	MAMMA1002011,	MAMMA1002041,	MAMMA1002143,	MAMMA1002236,	MAMMA1002351,	MAMMA1 002385,
	MAMMA1002434,	MAMMA1002461,	MAMMA1002470,	MAMMA1002485,	MAMMA1002530,	MAMMA1 002585,
	MAMMA1002598,	MAMMA1002619,	MAMMA1002684,	MAMMA1002769,	MAMMA1002775,	MAMMA 1002869,
	MAMMA1002890,	MAMMA1002937,	MAMMA1002947,	MAMMA1003011,	MAMMA1003035,	MAMMA1003047,
55	NT2RM1000357,	MAMMA1003113,	MAMMA1003146,	MAMMA1003166,		
	NT2RM1000001,	NT2RM1000032,	NT2RM1000035,	NT2RM1000037,	NT2RM1000039,	NT2RM1000055,
	NT2RM1000062,	NT2RM1000080,	NT2RM1000086,	NT2RM1000092,	NT2RM1000119,	NT2RM100012 7,
	NT2RM1000132,	NT2RM1000153,	NT2RM1000187,	NT2RM1000199,	NT2RM1000244,	NT2RM10002 56,

	NT2RM1000257,	NT2RM1000272,	NT2RM1000280,	NT2RM1000300,	NT2RM1000341,	NT2RM1000 355,
	NT2RM1000365,	NT2RM1000377,	NT2RM1000388,	NT2RM1000394,	NT2RM1000430,	NT2RM100 0499,
	NT2RM1000539,	NT2RM1000553,	NT2RM1000555,	NT2RM1000648,	NT2RM1000661,	NT2RM10 00669,
	NT2RM1000672,	NT2RM1000691,	NT2RM1000699,	NT2RM1000702,	NT2RM1000741,	NT2RM1 000746,
5	NT2RM1000770,	NT2RM1000780,	NT2RM1000781,	NT2RM1000800,	NT2RM1000826,	NT2RM 000829,
	NT2RM1000833,	NT2RM1000852,	NT2RM1000857,	NT2RM1000867,	NT2RM1000874,	NT2R M1000882,
	NT2RM1000883,	NT2RM1000898,	NT2RM1000905,	NT2RM1000924,	NT2RM1000927,	NT2 RM1000962,
	NT2RM1001003,	NT2RM1001043,	NT2RM1001044,	NT2RM1001074,	NT2RM1001102,	NT 2RM1001105,
	NT2RM1001112,	NT2RM1001139,				
10	NT2RM2000006,	NT2RM2000013,	NT2RM2000030,	NT2RM2000032,	NT2RM2000092,	NT2RM2000093 ,
	NT2RM2000101,	NT2RM2000191,	NT2RM2000192,	NT2RM2000239,	NNNNNNNNNNNN,	NT2RM200026 0,
	NT2RM2000287,	NT2RM2000322,	NT2RM2000359,	NT2RM2000368,	NT2RM2000371,	NT2RM200031 95,
	NT2RM2000402,	NT2RM2000407,	NT2RM2000420,	NT2RM2000422,	NT2RM2000452,	NT2RM2000 490,
	NT2RM2000502,	NT2RM2000504,	NT2RM2000522,	NT2RM2000540,	NT2RM2000569,	NT2RM200 0577,
15	NT2RM2000581,	NT2RM2000612,	NT2RM2000624,	NT2RM2000639,	NT2RM2000649,	NT2RM20 00669,
	NT2RM2000691,	NT2RM2000714,	NT2RM2000735,	NT2RM2000740,	NT2RM2000821,	NT2RM2 000837,
	NT2RM2000952,	NT2RM2000984,	NT2RM2001035,	NT2RM2001065,	NT2RM2001100,	NT2RM 2001131,
	NT2RM2001152,	NT2RM2001177,	NT2RM2001194,	NT2RM2001196,	NT2RM2001201,	NT2R M2001221,
	NT2RM2001238,	NT2RM2001243,	NT2RM2001256,	NT2RM2001291,	NT2RM2001306,	NT2 RM2001319,
20	NT2RM2001345,	NT2RM2001360,	NT2RM2001370,	NT2RM2001393,	NT2RM2001420,	NT2RM2001424,
	NT2RM2001504,	NT2RM2001524,	NT2RM2001582,	NT2RM2001592,	NT2RM2001605,	NT2RM2001613,
	NT2RM2001632,	NT2RM2001635,	NT2RM2001637,	NT2RM2001648,	NT2RM2001664,	NT2RM200166 8,
	NT2RM2001671,	NT2RM2001675,	NT2RM2001681,	NT2RM2001688,	NT2RM2001695,	NT2RM20016 96,
	NT2RM2001700,	NT2RM2001706,	NT2RM2001716,	NT2RM2001718,	NT2RM2001723,	NT2RM2001 730,
25	NT2RM2001743,	NT2RM2001760,	NT2RM2001768,	NT2RM2001782,	NT2RM2001784,	NT2RM200 1785,
	NT2RM2001800,	NT2RM2001803,	NT2RM2001813,	NT2RM2001823,	NT2RM2001839,	NT2RM20 01840,
	NT2RM2001855,	NT2RM2001867,	NT2RM2001879,	NT2RM2001886,	NT2RM2001903,	NT2RM2 001935,
	NT2RM2001936,	NT2RM2001950,	NT2RM2001997,	NT2RM2001998,	NT2RM2002004,	NT2RM 2002030,
	NT2RM2002049,	NT2RM2002055,	NT2RM2002088,	NT2RM2002091,	NT2RM2002100,	NT2R M2002109,
30	NT2RM2002128,	NT2RM2002142,	NT2RM2002145,	NT2RM2002178,	NT2RM2002580,	NT2RM4000027,
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35	PLACE1009468,	PLACE1009476,	PLACE1009571,	PLACE1009581,	PLACE1009596,	PLACE100 9622,
	PLACE1009670,	PLACE1009721,	PLACE1009731,	PLACE1009763,	PLACE1009845,	PLACE10 09921,
	PLACE1009995,					
	PLACE1010023,	PLACE1010031,	PLACE1010053,	PLACE1010074,	PLACE1010076,	PLACE1010096,
40	PLACE1010102,	PLACE1010105,	PLACE1010106,	PLACE1010134,	PLACE1010152,	PLACE101019 4,
	PLACE1010274,	PLACE1010362,	PLACE1010364,	PLACE1010383,	PLACE1010491,	PLACE10104 92,
	PLACE1010522,	PLACE1010529,	PLACE1010599,	PLACE1010622,	PLACE1010630,	PLACE1010 720,
	PLACE1010761,	PLACE1010771,	PLACE1010786,	PLACE1010800,	PLACE1010833,	PLACE101 0856,
	PLACE1010857,	PLACE1010870,	PLACE1010877,	PLACE1010925,	PLACE1010944,	PLACE10 10960,
	PLACE1011041,	PLACE1011090,	PLACE1011160,	PLACE1011214,	PLACE1011219,	PLACE1 011221,
45	PLACE1011263,	PLACE1011291,	PLACE1011310,	PLACE1011332,	PLACE1011371,	PLACE 1011433,
	PLACE1011477,	PLACE1011586,	PLACE1011646,	PLACE1011675,	PLACE1011858,	PLAC E1011923,
	PLACE2000007,	PLACE2000021,	PLACE2000030,	PLACE2000164,	PLACE2000172,	PLACE2000302,
	PLACE2000341,	PLACE2000399,	PLACE2000404,	PLACE2000427,	PLACE3000009,	PLACE300012 1,
	PLACE3000148,	PLACE3000156,	PLACE3000160,	PLACE3000197,	PLACE3000226,	PLACE30002 42,
50	PLACE3000339,	PLACE3000353,	PLACE3000413,	PLACE3000477,	PLACE4000009,	PLACE4000 034,
	PLACE4000089,	PLACE4000106,	PLACE4000259,	PLACE4000269,	PLACE4000326,	PLACE400 0369,
	PLACE4000431,	PLACE4000445,	PLACE4000581,	PLACE4000593,	PLACE4000650,	PLACE40 00670,
	SKNMC1000046,	SKNMC1000050,	SKNMC1000091,	THYRO1000017,	THYRO1000040,	THYRO1000121,
	THYRO1000173,	THYRO1000197,	THYRO1000199,	THYRO1000206,	THYRO1000242,	THYRO100027 0,
55	THYRO1000288,	THYRO1000320,	THYRO1000327,	THYRO1000358,	THYRO1000394,	THYRO10004 01,
	THYRO1000488,	THYRO1000502,	THYRO1000569,	THYRO1000570,	THYRO1000585,	THYRO1000 605,
	THYRO1000715,	THYRO1000756,	THYRO1000777,	THYRO1000829,	THYRO1000855,	THYRO100 0926,
	THYRO1000983,	THYRO1000984,	THYRO1001120,	THYRO1001134,	THYRO1001173,	THYRO10 01204,

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	THYRO1001271,	THYRO1001287,	THYRO1001313,	THYRO1001347,	THYRO1001363,	THYRO1 001405,
	THYRO1001406,	THYRO1001537,	THYRO1001584,	THYRO1001671,	THYRO1001703,	THYRO 1001721,
	THYRO1001793,					
	VESEN1000122,	Y79AA1000013,	Y79AA1000181,	Y79AA1000202,	Y79AA1000214,	Y79AA1000230,
5	Y79AA1000231,	Y79AA1000258,	Y79AA1000313,	Y79AA1000328,	Y79AA1000342,	Y79AA100036 8,
	Y79AA1000420,	Y79AA1000469,	Y79AA1000480,	Y79AA1000539,	Y79AA1000540,	Y79AA10005 60,
	Y79AA1000574,	Y79AA1000589,	Y79AA1000705,	Y79AA1000734,	Y79AA1000748,	Y79AA1000 752,
	Y79AA1000774,	Y79AA1000782,	Y79AA1000784,	Y79AA1000794,	Y79AA1000800,	Y79AA100 0833,
	Y79AA1000966,	Y79AA1000968,	Y79AA1001023,	Y79AA1001041,	Y79AA1001048,	Y79AA10 01077,
10	Y79AA1001078,	Y79AA1001216,	Y79AA1001228,	Y79AA1001236,	Y79AA1001312,	Y79AA1 001323,
	Y79AA1001394,	Y79AA1001402,	Y79AA1001493,	Y79AA1001511,	Y79AA1001548,	Y79AA 1001585,
	Y79AA1001603,	Y79AA1001647,	Y79AA1001665,	Y79AA1001679,	Y79AA1001696,	Y79A A1001705,
	Y79AA1001711,	Y79AA1001781,	Y79AA1001805,	Y79AA1001827,	Y79AA1001963,	Y79 AA1002027,
	Y79AA1002089,	Y79AA1002093,	Y79AA1002125,	Y79AA1002208,	Y79AA1002209,	Y 9AA1002210,
15	Y79AA1002234,	Y79AA1002258,	Y79AA1002307,	Y79AA1002311,	Y79AA1002351,	Y 79AA1002416,
	Y79AA1002487,					

## Group (4): 453 clones

Among the 1857 clones having the maximal ATGpr1 score not more than 0.3 (including the 9 clones whose 5'-end sequence does not contain the ATG codon), the following 453 clones were judged to be full-length since their ATGpr2 score was 0.3 or higher (Table 11). The clones were novel clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any of human ESTs.

	HEMBA1000180,	HEMBA1000280,	HEMBA1000282,	HEMBA1000333,	HEMBA1000351,	HEMBA1000357,
	HEMBA1000376,	HEMBA1000469,	HEMBA1000504,	HEMBA1000519,	HEMBA1000545,	HEMBA100055 7,
25	HEMBA1000575,	HEMBA1000726,	HEMBA1000822,	HEMBA1000934,	HEMBA1000943,	HEMBA10009 60,
	HEMBA1000972,	HEMBA1001020,	HEMBA1001051,	HEMBA1001060,	HEMBA1001071,	HEMBA1001 208,
	HEMBA1001319,	HEMBA1001383,	HEMBA1001411,	HEMBA1001433,	HEMBA1001435,	HEMBA100 1478,
	HEMBA1001522,	HEMBA1001636,	HEMBA1001651,	HEMBA1001658,	HEMBA1001709,	HEMBA10 01745,
	HEMBA1001791,	HEMBA1001835,	HEMBA1001844,	HEMBA1001888,	HEMBA1001940,	HEMBA1 001962,
30	HEMBA1002022,	HEMBA1002185,	HEMBA1002348,	HEMBA1002621,	HEMBA1002645,	HEMBA 1002661,
	HEMBA1002728,	HEMBA1002921,	HEMBA1002924,	HEMBA1002934,	HEMBA1002968,	HEMBA1003037,
	HEMBA1003071,	HEMBA1003166,	HEMBA1003202,	HEMBA1003204,	HEMBA1003220,	HEMBA1003229,
	HEMBA1003276,	HEMBA1003296,	HEMBA1003373,	HEMBA1003531,	HEMBA100364 0,	HEMBA1003856,
	HEMBA1003926,	HEMBA1003942,	HEMBA1003987,	HEMBA1004024,	HEMBA10042 67,	HEMBA1004323,
35	HEMBA1004433,	HEMBA1004577,	HEMBA1004730,	HEMBA1004778,	HEMBA1004 803,	HEMBA1004807,
	HEMBA1004880,	HEMBA1004900,	HEMBA1004983,	HEMBA1005123,	HEMBA100 5241,	HEMBA1005311,
	HEMBA1005318,	HEMBA1005353,	HEMBA1005374,	HEMBA1005447,	HEMBA10 05588,	HEMBA1005593,
	HEMBA1005606,	HEMBA1005679,	HEMBA1005894,	HEMBA1005911,	HEMBA1 006036,	HEMBA1006124,
	HEMBA1006253,	HEMBA1006259,	HEMBA1006364,	HEMBA1006380,	HEMBA 1006426,	HEMBA1006562,
40	HEMBA1006597,	HEMBA1006639,	HEMBA1006653,	HEMBA1006696,	HEMBA A1006744,	HEMBA1006824,
	HEMBA1006949,	HEMBA1007078,	HEMBA1007129,	HEMBA1007147,	HEMBA 1007206,	HEMBA1007279,
	HEMBA1007327,					
	HEMBA1000005,	HEMBA1000055,	HEMBA1000144,	HEMBA1000258,	HEMBA1000318,	HEMBA1000335,
	HEMBA1000354,	HEMBA1000374,	HEMBA1000402,	HEMBA1000404,	HEMBA1000480,	HEMBA100049 3,
45	HEMBA1000554,	HEMBA1000573,	HEMBA1000649,	HEMBA1000652,	HEMBA1000709,	HEMBA10007 49,
	HEMBA1000790,	HEMBA1000827,	HEMBA1000831,	HEMBA1000893,	HEMBA1001004,	HEMBA1001 008,
	HEMBA1001047,	HEMBA1001315,	HEMBA1001317,	HEMBA1001326,	HEMBA1001367,	HEMBA100 1424,
	HEMBA1001436,	HEMBA1001458,	HEMBA1001535,	HEMBA1001565,	HEMBA1001747,	HEMBA10 01749,
	HEMBA1001797,	HEMBA1001836,	HEMBA1001863,	HEMBA1001875,	HEMBA1001911,	HEMBA1 001922,
50	HEMBA1001925,	HEMBA1001944,	HEMBA1001983,	HEMBA1001996,	HEMBA1001997,	HEMBA1 002092,
	HEMBA1002247,	HEMBA1002266,	HEMBA1002367,	HEMBA1002425,	HEMBA1002458,	HEMBA B1002522,
	HEMBA1002534,	HEMBA1002582,	HEMBA1002596,	HEMBA1002617,	HEMBA1002702,	MAMMA1000043,
	MAMMA1000092,	MAMMA1000129,	MAMMA1000198,	MAMMA1000221,	MAMMA1000307,	MAMMA1000331,
	MAMMA1000360,	MAMMA1000402,	MAMMA1000414,	MAMMA1000500,	MAMMA1000552,	MAMMA1000576,
55	MAMMA1000594,	MAMMA1000597,	MAMMA1000720,	MAMMA1000775,	MAMMA10007 78,	MAMMA1000798,
	MAMMA1000862,	MAMMA1000876,	MAMMA1000931,	MAMMA1000940,	MAMMA100 941,	MAMMA1000975,
	MAMMA1001038,	MAMMA1001186,	MAMMA1001220,	MAMMA1001256,	MAMMA100 1274,	MAMMA1001341,
	MAMMA1001397,	MAMMA1001420,	MAMMA1001547,	MAMMA1001670,	MAMMA10 01679,	MAMMA1001711,

	MAMMA1001745, MAMMA1001760, MAMMA1001769, MAMMA1001815, MAMMA1 001907, MAMMA1002056, MAMMA1002078, MAMMA1002093, MAMMA1002125, MAMMA1002132, MAMMA 1002145, MAMMA1002250, MAMMA1002311, MAMMA1002411, MAMMA1002498, MAMMA1002571, MAMMA 1002701, MAMMA1002727, MAMMA1002728, MAMMA1002746, MAMMA1002764, MAMMA1002765, MAM 1002820, MAMMA1002830, MAMMA1002909, MAMMA1002941, MAMMA1002973, MAMMA1003004, MA MMA1003007, MAMMA1003039, MAMMA1003089, NT2RM4000086, NT2RM4000265, NT2RM4000414, NT2RM4000779, NT2RM4000855, NT2RM4001160, NT2RM4001311, NT2RM4001437, NT2RM4001754, NT2RM4001953, NT2RM4001984, NT2RP200007 7, NT2RP2000183, NT2RP2000420, NT2RP2000678, NT2RP2000715, NT2RP2000842, NT2RP20009 70, NT2RP2001149, NT2RP2001226, NT2RP2001295, NT2RP2001347, NT2RP2001569, NT2RP2001 663, NT2RP2001936, NT2RP2002041, NT2RP2002172, NT2RP2002219, NT2RP2002316, NT2RP200 2546, NT2RP2002591, NT2RP2002643, NT2RP2002741, NT2RP2002750, NT2RP2002778, NT2RP20 02857, NT2RP2003000, NT2RP2003073, NT2RP2003237, NT2RP2003394, NT2RP2003517, NT2RP2 003668, NT2RP2003989, NT2RP2004232, NT2RP2004523, NT2RP2004736, NT2RP2004767, NT2RP 2004775, NT2RP2004961, NT2RP2004962, NT2RP2004982, NT2RP2005407, NT2RP2005726, NT2R 2006258, NT2RP2006621, NT2RP2006454, NT2RP3000055, NT2RP3000233, NT2RP3000341, NT 2RP3000418, NT2RP3000451, NT2RP3000561, NT2RP3000582, NT2RP3001281, NT2RP3001339, NT 2RP3001340, NT2RP3001383, NT2RP3001432, NT2RP3001580, NT2RP3001589, NT2RP3002004, N T2RP3002173, NT2RP3003133, NT2RP3003346, NT2RP3003403, NT2RP3003576, NT2RP3003625, NT2RP3003665, NT2RP3003800, NT2RP3003828, NT2RP3004070, NT2RP3004470, NT2RP4000023, NT2RP4000035, NT2RP4000102, NT2RP4000167, NT2RP4000214, NT2RP4000218, NT2RP400042 4, NT2RP4000915, NT2RP4002075, OVARC1000085, OVARC1000092, OVARC1000145, OVARC1000414, OVARC1000496, OVARC1000526, OVARC1000948, OVARC1001011, OVARC1001600, OVARC1001805, OVARC1001813, OVARC100184 6, PLACE1000540, PLACE1000599, PLACE1001088, PLACE1001377, PLACE1001440, PLACE1001517, PLACE1001672, PLACE1001756, PLACE1002157, PLACE1002205, PLACE1002259, PLACE100239 9, PLACE1002477, PLACE1002583, PLACE1002968, PLACE1003238, PLACE1003566, PLACE10035 93, PLACE1003618, PLACE1004274, PLACE1004716, PLACE1004773, PLACE1004815, PLACE1004 979, PLACE1005052, PLACE1005086, PLACE1005128, PLACE1005176, PLACE1005467, PLACE100 5639, PLACE1005890, PLACE1006003, PLACE1006017, PLACE1006288, PLACE1006371, PLACE10 06629, PLACE1007478, PLACE1008330, PLACE1008584, PLACE1008851, PLACE1008941, PLACE1 009039, PLACE1009493, PLACE1009539, PLACE1009637, PLACE1009947, PLACE1010231, PLACE 1010562, PLACE1010579, PLACE1010739, PLACE1010802, PLACE1010896, PLACE1011032, PLAC E1011185, PLACE1011452, PLACE1011465, PLACE1011520, PLACE1011567, PLACE1011719, PLA CE2000011, PLACE2000017, PLACE2000061, PLACE2000187, PLACE2000216, PLACE2000335, PL ACE2000347, PLACE2000366, PLACE2000394, PLACE2000398, PLACE2000425, PLACE2000450, P LACE2000477, PLACE3000119, PLACE3000207, PLACE3000230, PLACE3000271, PLACE3000373, PLACE3000399, PLACE3000401, PLACE3000406, PLACE4000247, PLACE4000320, PLACE4000367, PLACE4000401, THYRO1000111, THYRO1000187, THYRO1000484, THYRO1000596, THYRO1000625, THYRO1000815, THYRO1000865, THYRO1001003, THYRO1001031, THYRO1001133, THYRO1001401, THYRO100142 6, THYRO1001434, THYRO1001559, THYRO1001570, THYRO1001706, THYRO1001746, THYRO10017 72, THYRO1001907, Y79AA1000033, Y79AA1000346, Y79AA1000805, Y79AA1001692, Y79AA1002 220,
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## Group (5): 24 clones

- 45 The following 24 clones having low score in the ATGpr1 were judged to be full-length since their ATGpr2 score was 0.3 or higher (Table 11). The clones were novel clones, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.
- 50 HEMBA1000622, HEMBA1000749, HEMBA1000876, HEMBA1001226, HEMBA1001391, HEMBA1002742, HEMBA1003908, HEMBA1004000, HEMBB1000336, MAMMA1000356, MAMMA1000883, MAMMA100159 0, NT2RP2000289, NT2RP2001467, PLACE1002853, PLACE1003420, PLACE1004836, PLACE10049 13, PLACE1006795, PLACE1008181, PLACE1008715, PLACE4000344, PLACE1000129, THYRO1001 321,

## Group (6): 65 clones

- 55 The following 65 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were judged to be full-length, since both scores were still the maximum in a cluster compared with those of the other clones (at least 2 clones or more) in the same cluster. The clones were novel clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any of human ESTs.
- HEMBA1000604, HEMBA1000673, HEMBA1001024, HEMBA1001026, HEMBA1001734, HEMBA1001784,

HEMBA1001808, HEMBA1003902, HEMBA1004164, HEMBA1004909, HEMBA1005232, HEMBA100557 7,  
 HEMBA1006461, HEMBA1006695, HEMBB1001119, HEMBB1001337, HEMBB1001536, HEMBB10018 68,  
 HEMBB1002045, HEMBB1002579, MAMMA1000444, MAMMA1000761, MAMMA1000943, MAMMA1001 820,  
 MAMMA1002360,  
 5 NT2RM4000366, NT2RM4001856, NT2RM4002390, NT2RP2000108, NT2RP2000257, NT2RP2001506,  
 NT2RP2002047, NT2RP2002066, NT2RP2002475, NT2RP2004400, NT2RP2004587, NT2RP200528 9,  
 NT2RP2005694, NT2RP3001898, NT2RP3003264, NT2RP3003433, NT2RP3003842, OVARC10012 40,  
 PLACE1001323, PLACE1002227, PLACE1002500, PLACE1002604, PLACE1002772, PLACE1003 478,  
 PLACE1004681, PLACE1005108, PLACE1005932, PLACE1006318, PLACE1006368, PLACE100 6506,  
 10 PLACE1006904, PLACE1007557, PLACE1007877, PLACE1009048, PLACE1011109, PLACE10 11643,  
 PLACE4000548, THYRO1000279, Y79AA1000410, Y79AA1002103,

## Group (7): 32 clones

The following 32 clones having low scores in both the ATGp1 and ATGp2 (Table 11) were judged to be full-length,  
 15 since both scores were still the maximum in a cluster compared with those of the other clones (at least 2 clones or  
 more) in the same cluster. The clones were novel clones, in which the number of the identical human ESTs for both  
 the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000251, HEMBA1001803, HEMBA1001918, HEMBA1002257, HEMBA1003064, HEMBA1003714 ,  
 HEMBA1004405, HEMBA1005508, HEMBB1000054, HEMBB1001142, MAMMA1000175, MAMMA100116 2,  
 20 MAMMA1002972, NT2RM4000425, NT2RP2004512, NT2RP2005531, NT2RP2005942, NT2RP20065 54,  
 NT2RP3001007, NT2RP3001318, OVARC1000017, OVARC1000468, OVARC1000486, PLACE1001 705,  
 PLACE1002319, PLACE1007743, PLACE1007829, PLACE1008630, PLACE1009925, PLACE101 1492,  
 PLACE1011749, THYRO1000793,

The following 117 clones, selected by assembling the sequence of the other clones in the same cluster and human  
 25 ESTs, have high fullness ratio. The clones were classified into the following group (8) and (9).

HEMBA1001323, HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349,  
 HEMBA1002538, HEMBA1003309, HEMBA1003939, HEMBA1004015, HEMBA1004295, HEMBA100467 2,  
 HEMBA1004865, HEMBA1005251, HEMBA1006158, HEMBA1006676, HEMBA1006779, HEMBA10072 88,  
 HEMBB1000218, HEMBB1000272, HEMBB1000399, HEMBB1000491, HEMBB1000996, HEMBB1001 114,  
 30 HEMBB1001850, HEMBB1002015, MAMMA1000287, MAMMA1001683, MAMMA1001686, MAMMA100 2612,  
 NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP2000270, NT2RP2000758, NT2RP20021290,  
 NT2RP2001526, NT2RP2002124, NT2RP2002736, NT2RP2002753, NT2RP2003456, NT2RP200372 7,  
 NT2RP2003871, NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2004580, NT2RP20052 93,  
 NT2RP2005476, NT2RP2005753, NT2RP2005815, NT2RP2005841, NT2RP2005857, NT2RP2006 393,  
 35 NT2RP2006467, NT2RP3000109, NT2RP3000449, NT2RP3001245, NT2RP3001634, NT2RP300 2056,  
 NT2RP3002810, NT2RP3002955, NT2RP3003032, NT2RP3003138, NT2RP3003500, NT2RP30 03819,  
 NT2RP4000078, NT2RP4000515, NT2RP4000517, NT2RP4001407, NT2RP4001889, NT2RP4 002905,  
 OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395, PLACE1001691 ,  
 PLACE1001746, PLACE1001748, PLACE1001845, PLACE1002066, PLACE1003373, PLACE100390 0,  
 40 PLACE1004118, PLACE1004256, PLACE1004284, PLACE1004336, PLACE1004506, PLACE10049 34,  
 PLACE1005077, PLACE1005111, PLACE1005409, PLACE1005730, PLACE1006076, PLACE1006 360,  
 PLACE1006470, PLACE1006760, PLACE1006867, PLACE1007045, PLACE1007111, PLACE100 7807,  
 PLACE1008080, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008426, PLACE10 08621,  
 PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, PLACE1000276, THYRO1 000805,  
 45 THYRO1001673, THYRO1001673, Y79AA1001848,

## Group (8): 36 clones

Among the 117 clones described above, the following 36 clones were novel clones, in which at least either of the  
 5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349, HEMBA1003939 ,  
 HEMBA1004295, HEMBA1004865, HEMBA1006779, HEMBB1000218, HEMBB1000491, HEMBB100099 6,  
 HEMBB1001114, MAMMA1000287, MAMMA1001686, MAMMA1002612, NT2RP2002736, NT2RP20037 27,  
 NT2RP2004580, NT2RP2005841, NT2RP2006393, PLACE1002066, PLACE1003373, PLACE1003 900,  
 PLACE1004118, PLACE1004336, PLACE1004506, PLACE1004934, PLACE1005409, PLACE100 5730,  
 55 PLACE1006470, PLACE1008080, PLACE1000276, THYRO1000805, THYRO1001385, THYRO10 01673,

## Group (9): 81 clones

Among the 117 clones described above, the following 81 clones were the clones in which the number of the identical



human ESTs for the 5'-end sequence is not more than 20 (except clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).

5	HEMBA1001323, HEMBA1002538, HEMBA1003309, HEMBA1004015, HEMBA1004672, HEMBA1005251, HEMBA1006158, HEMBA1006676, HEMBA1007288, HEMBB1000272, HEMBB1000399, HEMBB100185 0, HEMBB1002015, MAMMA1001683, NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP20002 70, NT2RP2000758, NT2RP2001290, NT2RP2001526, NT2RP2002124, NT2RP2002753, NT2RP2003 456, NT2RP2003871, NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2005293, NT2RP200 5476, NT2RP2005753, NT2RP2005815, NT2RP2005857, NT2RP2006467, NT2RP3000109, NT2RP30 00449, NT2RP3001245, NT2RP3001634, NT2RP3002056, NT2RP3002810, NT2RP3002955, NT2RP3 003032, NT2RP3003138, NT2RP3003500, NT2RP3003819, NT2RP4000078, NT2RP4000515, NT2RP 4000517, NT2RP4001407, NT2RP4001889, NT2RP4002905,
10	OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395, PLACE1001691, PLACE1001746, PLACE1001748, PLACE1001845, PLACE1004256, PLACE1004284, PLACE100507 7, PLACE1005111, PLACE1006076, PLACE1006360, PLACE1006760, PLACE1006867, PLACE10070 45, PLACE1007111, PLACE1007807, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008 426, PLACE1008621, PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, Y79AA100 1848,

#### Group (10): 938 clones

20 The following 938 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be full-length according to the fullness ratio shown in Table 4. The clones were novel clones, in which at least the 5'-end sequence was not identical to any of human ESTs.

25	HEMBA1000042, HEMBA1000213, HEMBA1000264, HEMBA1000355, HEMBA1000366, HEMBA1000411, HEMBA1000422, HEMBA1000428, HEMBA1000434, HEMBA1000442, HEMBA1000464, HEMBA100054 0, HEMBA1000563, HEMBA1000569, HEMBA1000655, HEMBA1000662, HEMBA1000702, HEMBA10007 05, HEMBA1000722, HEMBA1000747, HEMBA1000769, HEMBA1000773, HEMBA1000774, HEMBA100 827, HEMBA1000843, HEMBA1000852, HEMBA1000870, HEMBA1000908, HEMBA1000985, HEMBA100 0991, HEMBA1001017, HEMBA1001019, HEMBA1001094, HEMBA1001121, HEMBA1001172, HEMBA10 01265, HEMBA1001327, HEMBA1001375, HEMBA1001432, HEMBA1001454, HEMBA1001463, HEMBA1 001515, HEMBA1001517, HEMBA1001557, HEMBA1001586, HEMBA1001585, HEMBA1001589, HEMBA 1001608, HEMBA1001675, HEMBA1001678, HEMBA1001681, HEMBA1001718, HEMBA1001761, HEMB A1001945, HEMBA1001960, HEMBA1001964, HEMBA1001991,
30	HEMBA1002003, HEMBA1002008, HEMBA1002039, HEMBA1002100, HEMBA1002113, HEMBA1002139, HEMBA1002144, HEMBA1002153, HEMBA1002226, HEMBA1002253, HEMBA1002270, HEMBA100232 1, HEMBA1002328, HEMBA1002337, HEMBA1002381, HEMBA1002486, HEMBA1002552, HEMBA10025 55, HEMBA1002558, HEMBA1002561, HEMBA1002590, HEMBA1002628, HEMBA1002629, HEMBA1002 651, HEMBA1002659, HEMBA1002666, HEMBA1002678, HEMBA1002712, HEMBA1002716, HEMBA100 2730, HEMBA1002748, HEMBA1002780, HEMBA1002801, HEMBA1002826, HEMBA1002833, HEMBA10 02886, HEMBA1002896, HEMBA1003083, HEMBA1003086, HEMBA1003098, HEMBA1003133, HEMBA1 003197, HEMBA1003212, HEMBA1003273, HEMBA1003278, HEMBA1003304, HEMBA1003314, HEMBA 1003328, HEMBA1003330, HEMBA1003348, HEMBA1003376, HEMBA1003384, HEMBA1003395, HEMB A1003597, HEMBA1003622, HEMBA1003637, HEMBA1003656, HEMBA1003715, HEMBA1003725, HEMBA 1003733, HEMBA1003758, HEMBA1003773, HEMBA1003784, HEMBA1003885, HEMBA1003937, HE MBA1003950, HEMBA1003976,
45	HEMBA1004012, HEMBA1004045, HEMBA1004138, HEMBA1004241, HEMBA1004272, HEMBA1004306, HEMBA1004312, HEMBA1004334, HEMBA1004354, HEMBA1004366, HEMBA100439 4, HEMBA1004396, HEMBA1004429, HEMBA1004460, HEMBA1004461, HEMBA1004482, HEMBA10045 06, HEMBA1004538, HEMBA1004586, HEMBA1004617, HEMBA1004629, HEMBA1004631, HEMBA1004 666, HEMBA1004670, HEMBA1004733, HEMBA1004816, HEMBA1004820, HEMBA1004918, HEMBA100 4956, HEMBA1004960, HEMBA1004978, HEMBA1004995, HEMBA1005008, HEMBA1005062, HEMBA10 05274, HEMBA1005275, HEMBA1005293, HEMBA1005304, HEMBA1005315, HEMBA1005372, HEMBA1 005399, HEMBA1005426, HEMBA1005500, HEMBA1005506, HEMBA1005511, HEMBA1005520, HEMBA 1005568, HEMBA1005570, HEMBA1005616, HEMBA1005627, HEMBA1005631, HEMBA1005632, HEMB A1005670, HEMBA1005699, HEMBA1005705, HEMBA1005765, HEMBA1005780, HEMBA1005853, HEMB A1005909, HEMBA1005931, HEMBA1005934, HEMBA1005962, HEMBA1005999,
50	HEMBA1006002, HEMBA1006005, HEMBA1006042, HEMBA1006067, HEMBA1006090, HEMBA1006142, HEMBA1006268, HEMBA1006334, HEMBA1006359, HEMBA1006416, HEMBA1006419, HEMBA100642 1, HEMBA1006446, HEMBA1006471, HEMBA1006486, HEMBA1006489, HEMBA1006546, HEMBA10065 69,

	HEMBA1006595,	HEMBA1006617,	HEMBA1006635,	HEMBA1006648,	HEMBA1006665,	HEMBA1006 821,
	HEMBA1006849,	HEMBA1006865,	HEMBA1006929,	HEMBA1007045,	HEMBA1007051,	HEMBA100 7073,
	HEMBA1007113,	HEMBA1007256,	HEMBA1007273,	HEMBA1007322,	HEMBA1007347,	HEMBA1000039,
	HEMBA1000044,	HEMBA1000059,	HEMBA1000089,	HEMBA1000099,	HEMBA1000113,	HEMBA1000141,
5	HEMBA1000250,	HEMBA1000264,	HEMBA1000274,	HEMBA1000284,	HEMBA100030 7,	HEMBA1000312,
	HEMBA1000317,	HEMBA1000337,	HEMBA1000341,	HEMBA1000343,	HEMBA10003 69,	HEMBA1000376,
	HEMBA1000434,	HEMBA1000441,	HEMBA1000455,	HEMBA1000472,	HEMBA1000 518,	HEMBA1000530,
	HEMBA1000564,	HEMBA1000575,	HEMBA1000586,	HEMBA1000598,	HEMBA100 0637,	HEMBA1000638,
	HEMBA1000643,	HEMBA1000665,	HEMBA1000726,	HEMBA1000738,	HEMBA100 00770,	HEMBA1000794,
10	HEMBA1000821,	HEMBA1000822,	HEMBA1000883,	HEMBA1000888,	HEMBA1 000890,	HEMBA1000910,
	HEMBA1000959,	HEMBA1000981,	HEMBA1001037,	HEMBA1001051,	HEMBA 1001060,	HEMBA1001133,
	HEMBA1001208,	HEMBA1001209,	HEMBA1001218,	HEMBA1001221,	HEMBA B1001249,	HEMBA1001254,
	HEMBA1001267,	HEMBA1001282,	HEMBA1001302,	HEMBA1001304,	HEM BB1001335,	HEMBA1001348,
	HEMBA1001356,	HEMBA1001366,	HEMBA1001380,	HEMBA1001443,	HE MB1001463,	HEMBA1001464,
15	HEMBA1001521,	HEMBA1001527,	HEMBA1001537,	HEMBA1001555,	HEMBA1001586,	HEMBA1001619 ,
	HEMBA1001630,	HEMBA1001637,	HEMBA1001641,	HEMBA1001706,	HEMBA1001735,	HEMBA100175 3,
	HEMBA1001762,	HEMBA1001802,	HEMBA1001880,	HEMBA1001899,	HEMBA1001921,	HEMBA10019 30,
	HEMBA1001952,	HEMBA1001953,	HEMBA1001973,	HEMBA1001988,	HEMBA1002002,	HEMBA1002 005,
	HEMBA1002009,	HEMBA1002042,	HEMBA1002049,	HEMBA1002069,	HEMBA1002115,	HEMBA100 2139,
20	HEMBA1002189,	HEMBA1002232,	HEMBA1002254,	HEMBA1002255,	HEMBA1002280,	HEMBA10 02306,
	HEMBA1002364,	HEMBA1002371,	HEMBA1002381,	HEMBA1002453,	HEMBA1002477,	HEMBA1 002509,
	HEMBA1002531,	HEMBA1002601,	HEMBA1002603,	HEMBA1002610,	HEMBA1002613,	HEMBA1 002623,
	HEMBA1002635,	HEMBA1002664,	HEMBA1002677,	HEMBA1002683,	HEMBA1002686,	HEMBA B1002699,
	HEMBA1002712,					
25	MAMMA1000009,	MAMMA1000045,	MAMMA1000103,	MAMMA1000133,	MAMMA1000134,	MAMMA1000155 ,
	MAMMA1000241,	MAMMA1000254,	MAMMA1000264,	MAMMA1000266,	MAMMA1000340,	MAMMA100038 5,
	MAMMA1000423,	MAMMA1000424,	MAMMA1000446,	MAMMA1000478,	MAMMA1000501,	MAMMA10005 16,
	MAMMA1000565,	MAMMA1000585,	MAMMA1000605,	MAMMA1000616,	MAMMA1000621,	MAMMA1000 643,
	MAMMA1000669,	MAMMA1000696,	MAMMA1000707,	MAMMA1000714,	MAMMA1000718,	MAMMA100 0732,
30	MAMMA1000733,	MAMMA1000839,	MAMMA1000845,	MAMMA1000855,	MAMMA1000863,	MAMMA10 00867,
	MAMMA1000880,	MAMMA1000905,	MAMMA1000942,	MAMMA1000957,	MAMMA1000987,	MAMMA10 00998,
	MAMMA1001003,	MAMMA1001024,	MAMMA1001030,	MAMMA1001035,	MAMMA1001050,	MAMMA 1001067,
	MAMMA1001082,	MAMMA1001092,	MAMMA1001145,	MAMMA1001161,	MAMMA1001203,	MAMMA A1001243,
	MAMMA1001268,	MAMMA1001280,	MAMMA1001298,	MAMMA1001322,	MAMMA1001324,	MAM MA1001383,
35	MAMMA1001408,	MAMMA1001435,	MAMMA1001442,	MAMMA1001446,		
	MAMMA1001501,	MAMMA1001575,	MAMMA1001606,	MAMMA1001671,	MAMMA1001715,	MAMMA1001740 ,
	MAMMA1001788,	MAMMA1001818,	MAMMA1001854,	MAMMA1001878,	MAMMA1001931,	MAMMA100199 2,
	MAMMA1002032,	MAMMA1002082,	MAMMA1002084,	MAMMA1002108,	MAMMA1002118,	MAMMA10021 40,
	MAMMA1002215,	MAMMA1002267,	MAMMA1002298,	MAMMA1002299,	MAMMA1002310,	MAMMA1002 322,
40	MAMMA1002339,	MAMMA1002347,	MAMMA1002352,	MAMMA1002361,	MAMMA1002392,	MAMMA100 2417,
	MAMMA1002428,	MAMMA1002446,	MAMMA1002475,	MAMMA1002480,	MAMMA1002455,	MAMMA10 02556,
	MAMMA1002566,	MAMMA1002597,	MAMMA1002603,	MAMMA1002623,	MAMMA1002625,	MAMMA1 002629,
	MAMMA1002636,	MAMMA1002662,	MAMMA1002698,	MAMMA1002708,	MAMMA1002721,	MAMMA 1002744,
	MAMMA1002754,	MAMMA1002758,	MAMMA1002780,	MAMMA1002833,	MAMMA1002835,	MAMMA A1002838,
45	MAMMA1002844,	MAMMA1002858,	MAMMA1002880,	MAMMA1002887,	MAMMA1002908,	MAM MA1002930,
	MAMMA1002970,	MAMMA1002982,	MAMMA1003003,	MAMMA1003019,	MAMMA1003026,	MA MMA1003031,
	MAMMA1003040,	MAMMA1003055,				
	NT2RM4000046,	NT2RM4000085,	NT2RM4000200,	NT2RM4000244,	NT2RM4000368,	NT2RM4000979,
	NT2RM4001016,	NT2RM4001519,	NT2RM4001557,	NT2RM4001605,	NT2RM4001810,	NT2RM400185 8,
50	NT2RM4001930,	NT2RM4002067,	NT2RM4002278,	NT2RM4002281,	NT2RM4002287,	NT2RM40023 83,
	NT2RM4002479,	NT2RM4002504,	NT2RM4002532,	NT2RP2000027,	NT2RP2000098,	NT2RP2000 256,
	NT2RP2000327,	NT2RP2000337,	NT2RP2000459,	NT2RP2000498,	NT2RP2000987,	NT2RP200 1277,
	NT2RP2001132,	NT2RP2001423,	NT2RP2001445,	NT2RP2001449,	NT2RP2001677,	NT2RP20 01699,
	NT2RP2001720,	NT2RP2001740,	NT2RP2001762,	NT2RP2001813,	NT2RP2001869,	NT2RP2 001943,
55	NT2RP2002032,	NT2RP2002070,	NT2RP2002105,	NT2RP2002137,	NT2RP2002192,	NT2RP 2002256,
	NT2RP2002259,	NT2RP2002394,	NT2RP2002439,	NT2RP2002457,	NT2RP2002504,	NT2R P2002606,
	NT2RP2002727,	NT2RP2002740,	NT2RP2002752,	NT2RP2002839,	NT2RP2002987,	NT2RP2003129,
	NT2RP2003161,	NT2RP2003164,	NT2RP2003230,	NT2RP2003339,	NT2RP2003499,	NT2RP2003522,

	NT2RP2003559,	NT2RP2003706,	NT2RP2003770,	NT2RP2003859,	NT2RP200388 5,	NT2RP2004014,
	NT2RP2004142,	NT2RP2004170,	NT2RP2004172,	NT2RP2004207,	NT2RP20042 70,	NT2RP2004300,
	NT2RP2004339,	NT2RP2004347,	NT2RP2004425,	NT2RP2004490,	NT2RP2004 675,	NT2RP2004709,
	NT2RP2004967,	NT2RP2005020,	NT2RP2005031,	NT2RP2005108,	NT2RP200 5254,	NT2RP2005325
5	NT2RP2005336,	NT2RP2005344,	NT2RP2005354,	NT2RP2005360,	NT2RP20 05491,	NT2RP2005501,
	NT2RP2005581,	NT2RP2005645,	NT2RP2005651,	NT2RP2005701,	NT2RP2 005719,	NT2RP2005741,
	NT2RP2005908,	NT2RP2005980,	NT2RP2006098,	NT2RP2006103,	NT2RP 2006166,	NT2RP2006184,
	NT2RP2006320,	NT2RP2006321,	NT2RP2006323,	NT2RP2006534,	NT2RP2006598,	
	NT2RP3000186,	NT2RP3000235,	NT2RP3000247,	NT2RP3000433,	NT2RP3000441,	NT2RP3000578,
10	NT2RP3000584,	NT2RP3000622,	NT2RP3000628,	NT2RP3000685,	NT2RP3000742,	NT2RP300081 5,
	NT2RP3000875,	NT2RP3000904,	NT2RP3001115,	NT2RP3001232,	NT2RP3001374,	NT2RP30014 59,
	NT2RP3001527,	NT2RP3001607,	NT2RP3001752,	NT2RP3001782,	NT2RP3001926,	NT2RP3001 989,
	NT2RP3002002,	NT2RP3002166,	NT2RP3002352,	NT2RP3002687,	NT2RP3002713,	NT2RP300 2770,
	NT2RP3002799,	NT2RP3002978,	NT2RP3003059,	NT2RP3003121,	NT2RP3003464,	NT2RP30 03572,
15	NT2RP3003746,	NT2RP3003799,	NT2RP3003989,	NT2RP3004016,	NT2RP3004095,	NT2RP3 004110,
	NT2RP3004145,	NT2RP3004148,	NT2RP3004215,	NT2RP3004399,	NT2RP3004475,	NT2RP 3004503,
	NT2RP4000321,	NT2RP4000519,	NT2RP4000996,			
	OVARC1000133,	OVARC1000198,	OVARC1000240,	OVARC1000427,	OVARC1000431,	OVARC1000533 ,
	OVARC1000543,	OVARC1000573,	OVARC1000578,	OVARC1000678,	OVARC1000679,	OVARC100070 0,
20	OVARC1000769,	OVARC1000802,	OVARC1000891,	OVARC1000897,	OVARC1000936,	OVARC10009 37,
	OVARC1000960,	OVARC1000971,	OVARC1001000,	OVARC1001062,	OVARC1001072,	OVARC1001 085,
	OVARC1001118,	OVARC1001129,	OVARC1001169,	OVARC1001261,	OVARC1001268,	OVARC100 1282,
	OVARC1001330,	OVARC1001339,	OVARC1001342,	OVARC1001357,	OVARC1001442,	OVARC10 01480,
	OVARC1001542,	OVARC1001547,	OVARC1001615,	OVARC1001726,	OVARC1001795,	OVARC1 001900,
25	OVARC1001901,	OVARC1001911,	OVARC1001989,	OVARC1002044,	OVARC1002066,	OVARC 1002143,
	PLACE1000031,	PLACE1000040,	PLACE1000078,	PLACE1000094,	PLACE1000214,	PLACE1000332 ,
	PLACE1000421,	PLACE1000424,	PLACE1000481,	PLACE1000749,	PLACE1000841,	PLACE100093 1,
	PLACE1000979,	PLACE1001015,	PLACE1001076,	PLACE1001118,	PLACE1001136,	PLACE100112 79,
30	PLACE1001384,	PLACE1001468,	PLACE1001502,	PLACE1001534,	PLACE1001603,	PLACE1001 611,
	PLACE1001640,	PLACE1001716,	PLACE1001720,	PLACE1001745,	PLACE1001799,	PLACE100 1821,
	PLACE1001897,	PLACE1002052,	PLACE1002150,	PLACE1002256,	PLACE1002493,	PLACE100 02514,
	PLACE1002578,	PLACE1002591,	PLACE1002598,	PLACE1002768,	PLACE1002782,	PLACE1 002881,
	PLACE1002962,	PLACE1003153,	PLACE1003258,	PLACE1003343,	PLACE1003375,	PLACE 1003401,
	PLACE1003519,	PLACE1003521,	PLACE1003528,	PLACE1003575,	PLACE1003583,	PLAC E1003584,
35	PLACE1003638,	PLACE1003760,	PLACE1003768,	PLACE1003833,	PLACE1003850,	PLA CE1003858,
	PLACE1003932,					
	PLACE1004242,	PLACE1004257,	PLACE1004425,	PLACE1004467,	PLACE1004471,	PLACE1004518 ,
	PLACE1004658,	PLACE1004693,	PLACE1004813,	PLACE1004827,	PLACE1004838,	PLACE100484 0,
	PLACE1004900,	PLACE1004972,	PLACE1005146,	PLACE1005162,	PLACE1005453,	PLACE10054 71,
40	PLACE1005477,	PLACE1005502,	PLACE1005526,	PLACE1005528,	PLACE1005574,	PLACE1005 584,
	PLACE1005611,	PLACE1005802,	PLACE1005884,	PLACE1005898,	PLACE1005968,	PLACE100 6002,
	PLACE1006129,	PLACE1006143,	PLACE1006187,	PLACE1006205,	PLACE1006223,	PLACE10 06382,
	PLACE1006521,	PLACE1006534,	PLACE1006540,	PLACE1006617,	PLACE1006640,	PLACE1 006779,
	PLACE1006792,	PLACE1006800,	PLACE1006805,	PLACE1006815,	PLACE1006860,	PLACE 1006878,
45	PLACE1007097,	PLACE1007132,	PLACE1007140,	PLACE1007276,	PLACE1007286,	PLAC E1007525,
	PLACE1007677,	PLACE1007737,	PLACE1007866,			
	PLACE1008045,	PLACE1008111,	PLACE1008201,	PLACE1008231,	PLACE1008392,	PLACE1008424,
	PLACE1008437,	PLACE1008455,	PLACE1008625,	PLACE1008748,	PLACE1008757,	PLACE100879 8,
	PLACE1008807,	PLACE1008920,	PLACE1008947,	PLACE1009150,	PLACE1009246,	PLACE10093 08,
50	PLACE1009410,	PLACE1009477,	PLACE1009613,	PLACE1009639,	PLACE1009879,	PLACE1009 888,
	PLACE1009924,	PLACE1009935,	PLACE1010069,	PLACE1010083,	PLACE1010181,	PLACE101 0341,
	PLACE1010624,	PLACE1010628,	PLACE1010631,	PLACE1010662,	PLACE1010916,	PLACE10 10947,
	PLACE1011057,	PLACE1011133,	PLACE1011143,	PLACE1011266,	PLACE1011340,	PLACE1 011419,
	PLACE1011503,	PLACE1011641,	PLACE1011649,	PLACE1011650,	PLACE1011729,	PLACE 1011778,
55	PLACE1011874,	PLACE1011962,	PLACE1011995,			
	PLACE2000003,	PLACE2000103,	PLACE2000115,	PLACE2000132,	PLACE2000140,	PLACE2000176 ,
	PLACE2000317,	PLACE2000342,	PLACE2000419,	PLACE2000435,	PLACE2000455,	PLACE200046 5,
	PLACE3000004,	PLACE3000124,	PLACE3000136,	PLACE3000158,	PLACE3000169,	PLACE30001 99,

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PLACE3000208, PLACE3000218, PLACE3000341, PLACE3000362, PLACE3000365, PLACE3000 388,  
 PLACE3000400, PLACE3000402, PLACE3000475, PLACE4000093, PLACE4000100, PLACE400 0233,  
 PLACE4000252, PLACE4000379, PLACE4000411, PLACE4000494,  
 5 THYRO1000026, THYRO1000035, THYRO1000085, THYRO1000132, THYRO1000156, THYRO1000186 ,  
 THYRO1000190, THYRO1000221, THYRO1000241, THYRO1000438, THYRO1000452, THYRO100055  
 8, THYRO1000602, THYRO1000641, THYRO1000658, THYRO1000699, THYRO1000748, THYRO10007 96,  
 THYRO1000843, THYRO1000895, THRO1000974, THYRO1000975, THYRO1001062, THYRO1001 093,  
 THYRO1001121, THYRO1001177, THYRO1001262, THYRO1001290, THYRO1001322, THYRO100 1411,  
 THYRO1001480, THYRO1001541, THYRO1001573, THYRO1001617, THYRO1001895, Y79AA10 00065,  
 10 Y79AA1000405, Y79AA1000538, Y79AA1000802, Y79AA1000969, Y79AA1001061, Y79AA1 001167,  
 Y79AA1001384, Y79AA1001594, Y79AA1001875, Y79AA1002211,

## Group (11): 228 clones

The following 228 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be full-length according to the fullness ratio shown in Table 7. The clones were a novel clone, in which at least the 3'-end sequence was not identical to any of human ESTs.

15 HEMBA1000111, HEMBA1000243, HEMBA1000338, HEMBA1000390, HEMBA1000418, HEMBA1000459 ,  
 HEMBA1000518, HEMBA1000791, HEMBA1000974, HEMBA1001007, HEMBA1001077, HEMBA100109 9,  
 HEMBA1001123, HEMBA1001294, HEMBA1001299, HEMBA1001442, HEMBA1001861, HEMBA10019 42,  
 20 HEMBA1001979, HEMBA1002160, HEMBA1002162, HEMBA1002166, HEMBA1002389, HEMBA1002 498,  
 HEMBA1002592, HEMBA1002679, HEMBA1002944, HEMBA1003034, HEMBA1003142, HEMBA100 3549,  
 HEMBA1003571, HEMBA1003579, HEMBA1003598, HEMBA1003630, HEMBA1003958, HEMBA10 04038,  
 HEMBA1004042, HEMBA1004049, HEMBA1004132, HEMBA1004225, HEMBA1004748, HEMBA1 004770,  
 HEMBA1005039, HEMBA1005152, HEMBA1005159, HEMBA1005359, HEMBA1005408, HEMBA 1005410,  
 25 HEMBA1005443, HEMBA1005497, HEMBA1005552, HEMBA1005634, HEMBA1005717, HEMBA 1005829,  
 HEMBA1005921, HEMBA1006328, HEMBA1006438, HEMBA1006540, HEMBA1006780, HEMBA 1006921,  
 HEMBA1006938, HEMBA1007017, HEMBA1007341,  
 HEMBB1000050, HEMBB10000420, HEMBB1000487, HEMBB1000490, HEMBB1000523, HEMBB1000684 ,  
 HEMBB1000840, HEMBB1000876, HEMBB1000913, HEMBB1000915, HEMBB1000917, HEMBB100106 3,  
 30 HEMBB1001102, HEMBB1001177, HEMBB1001253, HEMBB1001271, HEMBB1001454, HEMBB10015 00,  
 HEMBB1001588, HEMBB1001618, HEMBB1001704, HEMBB1001717, HEMBB1001756, HEMBB1001 867,  
 HEMBB1001967, HEMBB1002043, HEMBB1002094, HEMBB1002190, HEMBB1002520, HEMBB100 2556,  
 HEMBB1002590,  
 35 MAMMA1000117, MAMMA1000227, MAMMA1000270, MAMMA1000302, MAMMA1000348, MAMMA1000413 ,  
 MAMMA1000431, MAMMA1000483, MAMMA1000559, MAMMA1000723, MAMMA1000744, MAMMA100075 2,  
 MAMMA1000782, MAMMA1000802, MAMMA1000851, MAMMA1000877, MAMMA1000962, MAMMA10010 74,  
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 PLACE1003516, PLACE1003864, PLACE1004384, PLACE1004491, PLACE1004793, PLACE100498 5,  
 PLACE1005085, PLACE1005666, PLACE1005845, PLACE1006164, PLACE1006262, PLACE10067 54,  
 PLACE1007852, PLACE1008331, PLACE1008643, PLACE1009050, PLACE1009155, PLACE1009 172,  
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 THYRO1000092, THYRO1000471, THYRO1000852, THYRO1001534, THYRO1001595, THYRO 1001745.

**EXAMPLE 12**

Homology search using the 5'-end and 3'-end sequences of the selected clones.

**[0172]** The 5'-end sequences of the selected 5547 clones were used for the homology search of the SwissProt, and both the 5'-end and 3'-end sequences were used for the search of the GenBank and UniGene (ref. the result of the search of the SwissProt, GenBank (except ESTs and STSs), and UniGene (Human) was attached).

**[0173]** Each search result is shown in the last part of this SPECIFICATION by arranging each item in the following format.

	5'-end sequence	3'-end sequence
Swiss-Prot	Homology search result 1	-----
GenBank	Homology search result 2	Homology search result 3
UniGene	Homology search result 4	Homology search result 5

**[0174]** According to the top hit data, at least 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth. Among the clones predicted belonging to any of the categories, 1001 clones were estimated to have a relatively high homology with the known proteins or genes in the same category. In addition, 429 clones were estimated to have a relatively low homology with the known proteins in the same category.

**[0175]** Herein, the term "relatively high homology" is defined as having 60% or more identity and the P-value  $10^{-10}$  or less in comparison with known sequences in the SwissProt database, or 64% or more identity and the P-value  $10^{-15}$  or less in comparison with those in the GenBank and UniGene databases (see the attached list). Also, the term "relatively low homology" is defined as not fulfilling the requirements to be "relatively high homology", but still having the scores, 25% or more identity and the P-value  $10^{-6}$  or less, using the sequence having 55 nucleotides or more, in comparison with known sequences in the SwissProt database (see the attached list). The P-value is a score obtained statistically by taking into account the probability of occurrence of the similarity between two sequences. In general, the smaller P-value reflects the higher similarity (Altschul S.F., Gish W., Miller W., Myers E.W., and Lipman D.J. (1990) "Basic local alignment search tool" J. Mol. Biol., 215: 403-410; Gish W., and States D.J. (1993) "Identification of protein coding regions by database similarity search" Nature Genet. 3: 266-272).

**[0176]** The clones predicted to encode a protein in the category of secretory protein or membrane protein have the keywords, "signal", "transmembrane", "membrane", "extracellular matrix", "receptor", "G-protein coupled receptor", "ionic channel", "voltage-gated channel", "calcium channel", "cell adhesion", "collagen", or "connective tissue", or descriptions from which the clone can be predicted to be a secretory or membrane protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0177]** The clones predicted to encode a protein in the category of glycoprotein have the keywords, "glycoprotein", or descriptions from which the clone can be predicted to be a glycoprotein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0178]** The clones predicted to encode a protein in the category of proteins associated with signal transduction have the keywords, "serine/threonine-protein kinase", "tyrosine-protein kinase", "SH3 domain", or "WD repeat", or descriptions from which the clone can be predicted to be a protein associated with signal transduction (such as "ADP-ribosylation factor"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0179]** The clones predicted to encode a protein in the category of proteins associated with transcription have the keywords, "transcription regulation", "zinc finger", or "homeobox", or descriptions from which the clone can be predicted to be a protein associated with transcription, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0180]** The clones predicted to encode a protein in the category of proteins associated with diseases are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein that is deposited in the Online Mendelian Inheritance in Man (OMIM) database, which is a database of human genes and diseases, or the top hit data has descriptions from which the clone can be predicted to be a protein associated with diseases.

**[0181]** The clones predicted to encode a protein in the category of enzyme or proteins associated with metabolism are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein with E.C.No. (Enzyme commission number), or the top hit data has descriptions from which the clone can be predicted to be an enzyme or protein associated with metabolism (such as "metabolism", "oxidoreductase", or "lipid").

**[0182]** The clones predicted to encode a protein in the category of proteins associated with cell division or cell proliferation have the keywords, "cell division", "cell cycle", "mitosis", or "chromosomal protein", or descriptions from which the clone can be predicted to be a protein associated with cell division or cell proliferation (such as "histone", "cell growth", or "apoptosis"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0183]** The clones predicted to encode a protein in the category of proteins associated with cytoskeleton have the keywords, "structural protein", "cytoskeleton", "actin-binding", or "microtubules", or descriptions from which the clone can be predicted to be a protein associated with cytoskeleton, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0184]** The clones predicted to encode a protein in the category of proteins associated with RNA synthesis include the above clones predicted to be a protein associated with transcription, and also the clones which have the keywords, "RNA splicing", or "RNA processing", or descriptions from which the clone can be predicted to be a protein associated with RNA synthesis (such as "RNA helicase", "polyadenylation", or "RNA transport"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0185]** The clones predicted to encode a protein in the category of nuclear protein include the above clones predicted to be a protein associated with transcription, and also the clones which have the keyword, "nuclear protein", or descriptions from which the clone can be predicted to be a nuclear protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0186]** The clones predicted to encode a protein in the category of proteins associated with protein synthesis or transport have the keywords, "translation regulation", "protein biosynthesis", "amino-acid biosynthesis", "ribosomal protein", or "protein transport", or descriptions from which the clone can be predicted to be a protein associated with protein synthesis or transport (such as "signal recognition particle", "ubiquitin", "proteasome", or "protease"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0187]** The clones predicted to encode a protein in the category of proteins associated with cellular defense have the keywords, "heat shock", "chaperone", "DNA repair", or "DNA damage", or descriptions from which the clone can be predicted to be a protein associated with cellular defense, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0188]** The clones predicted to encode a protein in the category of proteins associated with development or growth have the keyword, "developmental protein", or descriptions from which the clone can be predicted to be a protein associated with development or growth, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0189]** The following 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth.

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[0190] Among the clones, 1001 clones were estimated to have a relatively high homology with the known proteins or genes in the same category.						
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**[0191]** The following 429 clones were estimated to have a relatively low homology with the known proteins in the same category.

EP 1 074 617 A2

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PLACE1010083, PLACE1010089, PLACE1010106, PLACE1010152, PLACE1010194,  
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 PLACE1011263, PLACE1011371, PLACE1011492,

PLACE2000034, PLACE2000164, PLACE2000274, PLACE2000399, PLACE2000411,  
 PLACE2000458,

PLACE3000148, PLACE3000156, PLACE3000242, PLACE3000322, PLACE3000353,  
 PLACE3000373,

PLACE4000009, PLACE4000014, PLACE4000259, PLACE4000431, PLACE4000522,  
 PLACE4000558, PLACE4000581, PLACE4000590, PLACE4000612,

SKNMC1000011,

THYRO1000072, THYRO1000852, THYRO1000934, THYRO1000951,

Y79AA1000258, Y79AA1000368, Y79AA1000539, Y79AA1000589, Y79AA1000962,  
 Y79AA1001048, Y79AA1001233, Y79AA1001394, Y79AA1001581, Y79AA1001613,  
 Y79AA1001692, Y79AA1001848, Y79AA1001874, Y79AA1001963,

Y79AA1002027, Y79AA1002139, Y79AA1002208, Y79AA1002209, Y79AA1002472,  
 Y79AA1002482,

(1) Among the 1430 clones, the following 259 clones were predicted to encode a protein in the category of secretory protein or membrane protein (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001351, HEMBA1001407,  
 HEMBA1001476, HEMBA1001569, HEMBA1001678, HEMBA1001804, HEMBA1002150, HEMBA100254 7,  
 HEMBA1002555, HEMBA1002688, HEMBA1002716, HEMBA1002999, HEMBA1003071, HEMBA10030 77,  
 HEMBA1003538, HEMBA1003598, HEMBA1003690, HEMBA1004207, HEMBA1004356, HEMBA1004 389,  
 HEMBA1004756, HEMBA1005338, HEMBA1005367, HEMBA1005576, HEMBA1005699, HEMBA100 5963,  
 HEMBA1005990, HEMBA1006310, HEMBA1006344, HEMBA1006562, HEMBA1006976, HEMBA10 07045,  
 HEMBA1007301, HEMBB1000037, HEMBB1000119, HEMBB1000317, HEMBB1000530, HEMBB1 000915,  
 HEMBB1001112, HEMBB1001119, HEMBB1001151, HEMBB1001282, HEMBB1001331, HEMBB 1002042,  
 HEMBB1002092, HEMBB1002193, HEMBB1002600, MAMMA1000103, MAMMA1000424, MAMM A1000672,  
 MAMMA1000734, MAMMA1000897, MAMMA1001008, MAMMA1001030, MAMMA1001041, MAM MA1001075,  
 MAMMA1001080, MAMMA1001751, MAMMA1001754, MAMMA1002143, MAMMA1002219, MA MMA1002485,  
 MAMMA1002636, MAMMA1002938, MAMMA1003104, NT2RM1000199, NT2RM1000355, N T2RM1000430,  
 NT2RM1000648, NT2RM1000742, NT2RM1000770, NT2RM1000811, NT2RM1000833, NT2RM1000867,  
 NT2RM1000882, NT2RM1000883, NT2RM1001139, NT2RM2000374, NT2RM2000402, NT2RM2000422,  
 NT2RM2000566, NT2RM2000623, NT2RR2001324, NT2RM2001499, NT2RM200158 8, NT2RM2001592,  
 NT2RM2001613, NT2RM2001635, NT2RM2001648, NT2RM2001760, NT2RM20021 09, NT2RM2002145,  
 NT2RM4000156, NT2RM4000169, NT2RM4000386, NT2RM4000433, NT2RM4000795, NT2RM4001032,  
 NT2RM4001054, NT2RM4001410, NT2RM4001605, NT2RM4001930, NT2RM4001987, NT2RM4002073,  
 NT2RM4002145, NT2RM4002189, NT2RM4002558, NT2RM400256 5, NT2RM4002571, NT2RM4002594,  
 NT2RP1000130, NT2RP1000326, NT2RP1000363, NT2RP10004 13, NT2RP1000547, NT2RP1000782,  
 NT2RP1000856, NT2RP1001247, NT2RP1001313, NT2RP1001 546, NT2RP1001569, NT2RP2000056,

NT2RP2000257, NT2RP2000842, NT2RP2001081, NT2RP200 1991, NT2RP2000205, NT2RP2002193,  
 NT2RP2002256, NT2RP2002312, NT2RP2002479, NT2RP20 02504, NT2RP2003433, NT2RP2003706,  
 NT2RP2003760, NT2RP2004194, NT2RP2004655, NT2RP2 005020, NT2RP2005344, NT2RP2005465,  
 NT2RP2005752, NT2RP2005753, NT2RP2005835, NT2RP 2005933, NT2RP2006275, NT2RP2006565,  
 5 NT2RP2006571, NT2RP3000324, NT2RP3000739, NT2R P3000919, NT2RP3001140, NT2RP3001355,  
 NT2RP3001676, NT2RP3001708, NT2RP3001727, NT2 RP3002659, NT2RP3003059, NT2RP3003101,  
 NT2RP3003203, NT2RP3003212, NT2RP3003242, NT 2RP3003672, NT2RP3003701, NT2RP3003716,  
 NT2RP3003918, NT2RP3004207, NT2RP3004253, N T2RP4000008, NT2RP4000212, NT2RP4000243,  
 10 NT2RP4000417, NT2RP4000878, NT2RP4000907, NT2RP4000925, NT2RP4000928, NT2RP4001079,  
 NT2RP4001117, NT2RP4001150, NT2RP4001174 , NT2RP4001313, NT2RP4001315, NT2RP4001345,  
 NT2RP4001372, NT2RP4001574, NT2RP400182 3, NT2RP4001966, NT2RP5003524, OVARC1000060,  
 OVARC1000326, OVARC1000543, OVARC10006 82, OVARC1000722, OVARC1000912, OVARC1001055,  
 OVARC1001154, OVARC1001261,  
 15 OVARC1001329, OVARC1001419, OVARC1001506, OVARC1001542, OVARC1001610, OVARC1001713 ,  
 OVARC1001802, OVARC1001943, PLACE1000611, PLACE1001092, PLACE1001136, PLACE100129 4,  
 PLACE1002437, PLACE1002500, PLACE1002722, PLACE1002782, PLACE1002816, PLACE10034 20, PLACE10034 277,  
 PLACE1003493, PLACE1003596, PLACE1004104, PLACE1004197, PLACE1004203, PLACE1004 277,  
 PLACE1004629, PLACE1004751, PLACE1005494, PLACE1005804, PLACE1005890, PLACE10 6157,  
 PLACE1007409, PLACE1007852, PLACE1008044, PLACE1008273, PLACE1008309, PLACE10 08603,  
 20 PLACE1008643, PLACE1008659, PLACE1009670, PLACE1009845, PLACE1009861, PLACE1 011371,  
 PLACE1011149, PLACE1011896, PLACE2000034, PLACE2000341, PLACE2000369, PLACE 2000458,  
 PLACE3000020, PLACE3000322, PLACE3000353, PLACE4000052, PLACE4000239, PLAC E4000522,  
 PLACE4000581, THYRO1000783, Y79AA1000258, Y79AA1000346, Y79AA1001874,

(2) The following 111 clones were predicted to encode a protein in the category of glycoprotein (including the clones belonging to plural categories).

HEMBA1000752, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001302, HEMBA1002150 ,  
 HEMBA1002547, HEMBA1002555, HEMBA1003077, HEMBA1003538, HEMBA1003598, HEMBA100386 6,  
 HEMBA1004356, HEMBA1005338, HEMBA1005576, HEMBA1005699, HEMBA1006562, HEMBA10069 76,  
 30 HEMBA1007301, HEMBB1000317, HEMBB1000530, HEMBB1001119, HEMBB1002092, HEMBB1002 193,  
 MAMMA1000672, MAMMA1000897, MAMMA1001030, MAMMA1001388, MAMMA10011771, MAMMA10 2465,  
 MAMMA1002636, MAMMA1002938, NT2RM1000648, NT2RM2000374, NT2RM2000407, NT2RM20 00422,  
 NT2RM2000623, NT2RM2001499, NT2RM2001588, NT2RM2001839, NT2RM2001930, NT2RM4 000156,  
 NT2RM4000233, NT2RM4001410, NT2RM4001987, NT2RM4002145, NT2RM4002169, NT2RM 4002194,  
 35 NT2RM4002558, NT2RM4002571, NT2RP1000856, NT2RP1001247, NT2RP2000056, NT2R P2001991,  
 NT2RP2002025, NT2RP2002325, NT2RP2002385, NT2RP2003706, NT2RP2005933, NT2 RP3001140,  
 NT2RP3003242, NT2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003914, N T2RP3004253,  
 NT2RP4000212, NT2RP4000417, NT2RP4000925, NT2RP4001149, NT2RP4001150, N T2RP4001219,  
 NT2RP4001345, NT2RP4001372, NT2RP5003522, NT2RP5003524, OVARC1000543, OVARC1000682,  
 40 OVARC1000722, OVARC1001055, OVARC1001154, OVARC1001506, OVARC1001713, PLACE1002437,  
 PLACE1002722, PLACE1003258, PLACE1003493, PLACE1004197, PLACE100475 1, PLACE1005698,  
 PLACE1005804, PLACE1006157, PLACE1006754, PLACE1008643, PLACE10090 94, PLACE1009861,  
 PLACE1011371, PLACE2000034, PLACE2000062, PLACE2000369, PLACE2000458, PLACE3000009,  
 PLACE3000020, PLACE3000353, PLACE3000373, PLACE4000052, PLACE4000230, PLACE4000522,  
 45 PLACE4000581, THYRO1000852, Y79AA1001874,

(3) The following 147 clones were predicted to encode a protein in the category of proteins associated with signal transduction (including the clones belonging to plural categories).

HEMBA1000300, HEMBA1000185, HEMBA1000303, HEMBA1000459, HEMBA1000491, HEMBA1000657 ,  
 50 HEMBA1000991, HEMBA1001174, HEMBA1001387, HEMBA1001822, HEMBA1001921, HEMBA100221 2,  
 HEMBA1002341, HEMBA1002417, HEMBA1002810, HEMBA1002896, HEMBA1003291, HEMBA10033 14,  
 HEMBA1003560, HEMBA1003615, HEMBA1003621, HEMBA1003805, HEMBA1004286, HEMBA1004 604,  
 HEMBA1006173, HEMBA1006540, HEMBA1006973, HEMBA1007174, HEMBB1000632, HEMBB100 0781,  
 HEMBB1001051, HEMBB1001177, HEMBB1001234, HEMBB1001294, HEMBB1001384, HEMBB10 02193,  
 55 HEMBB1002477, HEMBB1002635, MAMMA1001305, MAMMA1002699, MAMMA1002842, MAMMA1 003057,  
 MAMMA1003113, NT2RM1000118, NT2RM1000186, NT2RM1000772, NT2RM1000850, NT2RM 1001072,  
 NT2RM2000124, NT2RM2000612, NT2RM2001065, NT2RM2001221, NT2RM2001345, NT2R M2001652,  
 NT2RM2001983, NT2RM2002109, NT2RM2002128, NT2RM4000327, NT2RM4000354, NT2 RM4000798,

NT2RM4001203, NT2RM4001411, NT2RM4001412, NT2RM4001582, NT2RM4001629, NT 2RM4001758,  
 NT2RM4002226, NT2RP1000018, NT2RP1000112, NT2RP1000701, NT2RP1000825, N T2RP1001395,  
 NT2RP1001410, NT2RP1001457, NT2RP1001482, NT2RP2002058, NT2RP2002710, NT2RP2003702,  
 NT2RP2003912, NT2RP2004232, NT2RP2004768, NT2RP2005022, NT2RP2005620, NT2RP2005890,  
 5 NT2RP3000299, NT2RP3000403, NT2RP3000742, NT2RP3000845, NT2RP300176 4, NT2RP3002004,  
 NT2RP3002785, NT2RP3002909, NT2RP3003230, NT2RP3003411, NT2RP30034 64, NT2RP3003800,  
 NT2RP3004475, NT2RP3004534, NT2RP4000147, NT2RP4000376,  
 NT2RP4001122, NT2RP4001375, NT2RP4001644, NT2RP4001725, NT2RP4001760, NT2RP4001849,  
 10 NT2RP4001927, NT2RP4002408, NT2RP5003477, OVARC1000437, OVARC1000465, OVARC100064 9,  
 OVARC1000945, OVARC1001476, OVARC1001861, NT2RP1001377, PLACE1001384, PLACE10013 87,  
 PLACE1002493, PLACE1002591, PLACE1002685, PLACE1003353, PLACE1004128, PLACE1004 918,  
 PLACE1005502, PLACE1005739, PLACE1005968, PLACE1006385, PLACE1007238, PLACE100 7375,  
 PLACE1007488, PLACE1008244, PLACE1008650, PLACE1009319, PLACE1009468, PLACE10 10083,  
 PLACE1010942, PLACE1011041, PLACE1011046, PLACE1011923, PLACE2000164, PLACE3 000145,  
 15 PLACE3000350, PLACE3000475, THYRO1001595, Y79AA1000059, Y79AA1000996,

(4) The following 230 clones were predicted to encode a protein in the category of proteins associated with transcription (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000851, HEMBA1001137,  
 20 HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA100184 7,  
 HEMBA1002035, HEMBA1002092, HEMBA1002569, HEMBA1002609, HEMBA1003545, HEMBA10035 68,  
 HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004 353,  
 HEMBA1004479, HEMBA1004758, HEMBA1005359, HEMBA1005528, HEMBA1005548, HEMBA100 5931,  
 HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006559, HEMBB1000250, HEMBB10 00789,  
 25 HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001908, HEMBB1002134, HEMBB1 002217,  
 MAMMA1000155, MAMMA1000183, MAMMA1000388, MAMMA1001633, MAMMA1001820, MAMMA 1001837,  
 MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000666, NT2RM1000691, NT2R M1000894,  
 NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2 RM2001605,  
 NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2002580, NT2RM4000024, NT 2RM4000104,  
 30 NT2RM4000191, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, N T2RM4000996,  
 NT2RM4001140, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001746, NT2RM4001783,  
 NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RP1000111 , NT2RP1000333,  
 NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP2000008, NT2RP2000113 3, NT2RP2000297,  
 NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2002252, NT2RP20025 03, NT2RP2002591,  
 35 NT2RP2003125, NT2RP2003228, NT2RP2003293, NT2RP2003564,  
 NT2RP2003714, NT2RP2004013, NT2RP2004187, NT2RP2004961, NT2RP2005003, NT2RP2005037 ,  
 NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722, NT2RP2006238, NT2RP200646 4,  
 NT2RP3000050, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP30006 32,  
 NT2RP3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001 399,  
 40 NT2RP3001671, NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP300 1855,  
 NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP30 03251,  
 NT2RP3003327, NT2RP3004258, NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3 004617,  
 NT2RP4000078, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000787, NT2RP 4000865,  
 NT2RP4000997, NT2RP4001029, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2R P4001551,  
 45 NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVA RC10000479,  
 OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PL ACE1000066,  
 PLACE1001133, PLACE1000583, PLACE1000596, PLACE1000706, PLACE1001118, P ACE1001238,  
 PLACE1001304, PLACE1001602, PLACE1001632, PLACE1002450, PLACE1002532, PLACE1002834,  
 PLACE1003302, PLACE1003605, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510,  
 50 PLACE1004681, PLACE1006414, PLACE1006438, PLACE1006482, PLACE100723 9, PLACE1007346,  
 PLACE1007544, PLACE1007598, PLACE1007955, PLACE1007969, PLACE10086 27, PLACE1008941,  
 PLACE1009099, PLACE1009246, PLACE1009398, PLACE1010261,  
 PLACE1010491, PLACE1010702, PLACE1010771, PLACE1010870, PLACE1011576, PLACE2000072 ,  
 PLACE2000359, PLACE4000128, PLACE4000156, PLACE4000259, PLACE4000431, THYRO100012 1,  
 55 THYRO1000242, THYRO1000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000 37,  
 Y79AA1000627, Y79AA1000705, Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001 533,  
 Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1002093, Y79AA1002472, Y79AA100 2482,

(5) The following 436 clones were predicted to encode a protein in the category of proteins associated with diseases (including the clones belonging to plural categories).

	HEMBA1000158, HEMBA1000216, HEMBA1000523, HEMBA1000561, HEMBA1000569, HEMBA1000673, HEMBA1000972, HEMBA1001017, HEMBA1001019, HEMBA1001059, HEMBA1001071, HEMBA100108 8, HEMBA1001123, HEMBA1001407, HEMBA1001569, HEMBA1001570, HEMBA1001672, HEMBA10020 35, HEMBA1002160, HEMBA1002162, HEMBA1002547, HEMBA1002939, HEMBA1003077, HEMBA1003 418, HEMBA1003433, HEMBA1003538, HEMBA1003555, HEMBA1003568, HEMBA1003569, HEMBA100 3581, HEMBA1003720, HEMBA1003760, HEMBA1004168, HEMBA1004248, HEMBA1004276, HEMBA10 3454, HEMBA1004356, HEMBA1004479, HEMBA1004534, HEMBA1004669, HEMBA1004752, HEMBA1 004753, HEMBA1004807, HEMBA1005293, HEMBA1005331, HEMBA1005359, HEMBA1005367, HEMBA 1005423, HEMBA1005443, HEMBA1005475, HEMBA1005528, HEMBA1005576, HEMBA1005581, HEMBA 1005679, HEMBA1005699, HEMBA1005732, HEMBA1005931, HEMBA1006173, HEMBA1006274, HEMBA1006562, HEMBA1006648, HEMBA1006652, HEMBA1006737, HEMBA1006807, HEMBA1006976, HEMBA1007078, HEMBA1007121, HEMBA1007243, HEMBA1007301, HEMBB1000264, HEMBB1000637, HEMBB1000684, HEMBB1000693, HEMBB1000915, HEMBB1000927, HEMBB1001011, HEMBB1001051, HEMBB1001068, HEMBB1001102, HEMBB1001119, HEMBB1001133, HEMBB1001177, HEMBB1001802, HEMBB1001908, HEMBB1001922, HEMBB1001967, HEMBB1002050, HEMBB1002193, HEMBB1002241 7, HEMBB1002358, HEMBB1002635, HEMBB1002683, MAMMA1000009, MAMMA1000092, MAMMA10001 03, MAMMA1000173, MAMMA1000731, MAMMA1000897, MAMMA1000956, MAMMA1001021,	
20	MAMMA1001041, MAMMA1001105, MAMMA1001198, MAMMA1001305, MAMMA1001576, MAMMA1001633, MAMMA1002140, MAMMA1002170, MAMMA1002198, MAMMA1002268, MAMMA1002352, MAMMA100239 2, MAMMA1002485, MAMMA1002530, MAMMA1002573, MAMMA1002636, MAMMA1002858, MAMMA10028 69, MAMMA1002881, MAMMA1002937, MAMMA1003047, MAMMA1003099, MAMMA1003146, MAMMA1003 166, NT2RM1000035, NT2RM1000153, NT2RM1000257, NT2RM1000318, NT2RM1000377, NT2RM100 0394, NT2RM1000555, NT2RM1000691, NT2RM1000725, NT2RM1000770, NT2RM1000826, NT2RM10 00850, NT2RM1001059, NT2RM1001072, NT2RM1001082, NT2RM1001092, NT2RM1000363, NT2RM2 000374, NT2RM2000594, NT2RM2000599, NT2RM2000714, NT2RM2000740, NT2RM2000821, NT2RM 2001035, NT2RM2001499, NT2RM2001575, NT2RM2001605, NT2RM2001664, NT2RM2001670, NT2R M2001803, NT2RM2001823, NT2RM2001839, NT2RM4000085, NT2RM4000139, NT2RM4000155, NT2 RM4000290, NT2RM4000689, NT2RM4000895, NT2RM4001320, NT2RM4001566, NT2RM4001629, NT 2RM4001741, NT2RM4001819, NT2RM4001823, NT2RM4001865, NT2RM4001940, NT2RM4002033, NT 2RM4002146, NT2RM4002161, NT2RM4002189, NT2RM4002457, NT2RM4002558, NT2RM4002571, NT2RP1000086, NT2RP1000376, NT2RP1000574, NT2RP1000581, NT2RP1000629, NT2RP1000721, NT2RP1000733, NT2RP1000738, NT2RP1000825, NT2RP1000833, NT2RP1000860, NT2RP100096 6, NT2RP1001033, NT2RP1001247, NT2RP2000126, NT2RP2000147, NT2RP2000233, NT2RP20002 97, NT2RP2000310, NT2RP2000414, NT2RP2000448, NT2RP2000459, NT2RP2000603, NT2RP2000812, NT2RP2001127, NT2RP2001327, NT2RP2001440, NT2RP2001520, NT2RP2001663, NT2RP2001748, NT2RP2001876, NT2RP2001898, NT2RP2002025, NT2RP2002066, NT2RP200225 9, NT2RP2002312, NT2RP2002503, NT2RP2002618, NT2RP2003228, NT2RP2003293, NT2RP20032 95, NT2RP2003517, NT2RP2003564, NT2RP2003706, NT2RP2003737, NT2RP2003968, NT2RP2004 013, NT2RP2004098, NT2RP2004187, NT2RP2004316, NT2RP2004523, NT2RP2004538, NT2RP200 4533, NT2RP2005144, NT2RP2005288, NT2RP2005289, NT2RP2005325, NT2RP2005358, NT2RP20 05531, NT2RP2005773, NT2RP2006219, NT2RP3000050, NT2RP3000080, NT2RP3000299, NT2RP3 000397, NT2RP3000512, NT2RP3000527, NT2RP3001081, NT2RP3001216, NT2RP3001288, NT2RP 3001355, NT2RP3001427, NT2RP3001428, NT2RP3001497, NT2RP3001554, NT2RP3001724, NT2R P3001764, NT2RP3001799, NT2RP3001855, NT2RP3002045, NT2RP3002151, NT2RP3002351, NT2 RP3002352, NT2RP3002663, NT2RP3002818, NT2RP3002876, NT2RP3002909, NT2RP3002972, NT2 RP3003061, NT2RP3003157, NT2RP3003422, NT2RP3003282, NT2RP3003672, NT2RP3004078, NT2RP3004209, NT2RP3004399, NT2RP3004424, NT2RP3004475, NT2RP3004480, NT2RP3004490, NT2RP3004527, NT2RP3004578, NT2RP4000049, NT2RP4000109, NT2RP4000185, NT2RP4000312, NT2RP4000367, NT2RP4000398, NT2RP4000457, NT2RP4000855, NT2RP4000879, NT2RP4000915, NT2RP4000928, NT2RP4001095, NT2RP4001150, NT2RP4001213, NT2RP4001483, NT2RP40014 98, NT2RP4001753, NT2RP4001838, OVARC1000014, OVARC1000114, OVARC1000139, OVARC1000241, OVARC1000440, OVARC1000543, OVARC1000722, OVARC1000771, OVARC1000834, OVARC1000850, OVARC1001113, OVARC1001244, OVARC1001296, OVARC1001357, OVARC100137 2, OVARC1001417, OVARC1001496, OVARC1001506, OVARC1001577, OVARC1001668, OVARC10017 13, OVARC1001809, OVARC1001880, OVARC1001901, OVARC1001949, OVARC1002050, PLACE1000 133, PLACE1000142, PLACE1000184, PLACE1000383, PLACE1000406, PLACE1000420, PLACE100 0583,	

	PLACE1000588, PLACE1000706, PLACE1001384, PLACE1001387, PLACE1001517, PLACE10 01602,
	PLACE1001634, PLACE1001771, PLACE1002046, PLACE1002437, PLACE1002474, PLACE1 002665,
	PLACE1002834, PLACE1003302, PLACE1003493, PLACE1003704, PLACE1003888, PLACE 1003903,
	PLACE1003968, PLACE1004197, PLACE1004358, PLACE1004471, PLACE1004681, PLAC E1004751,
5	PLACE1004773, PLACE1005101, PLACE1006040, PLACE1006119, PLACE1006170, PLA CE1006187,
	PLACE1006288, PLACE1006414, PLACE1006438, PLACE1006962, PLACE1007239, PL ACE1007257,
	PLACE1007488, PLACE1007511, PLACE1007737, PLACE1008000, PLACE1008402, P ACE1008643,
	PLACE1008696, PLACE1008941, PLACE1009027, PLACE1009200, PLACE1009230, PLACE1009298,
	PLACE1009319, PLACE1009444, PLACE1009524, PLACE1010083, PLACE1010089, PLACE1010599,
10	PLACE1010833, PLACE1010856, PLACE1011054, PLACE1011057, PLACE101116 5, PLACE1011229,
	PLACE1011263, PLACE1011371, PLACE2000072, PLACE2000399, PLACE20004 38, PLACE2000458,
	PLACE3000004, PLACE3000242, PLACE3000352, PLACE3000353,
	PLACE3000455, PLACE3000475, PLACE4000009, PLACE4000014, PLACE4000052, PLACE4000320,
	PLACE4000581, SKNMC1000050, THYRO1000026, THYRO1000173, THYRO1000186, THYRO100032 0,
15	THYRO1000327, THYRO1000387, THYRO1000471, THYRO1000934, THYRO1001458, THYRO10015 95,
	THYRO1001605, THYRO1001617, THYRO1001671, Y79AA1000037, Y79AA1000469, Y79AA1000 539,
	Y79AA1000560, Y79AA1000734, Y79AA1000985, Y79AA1001105, Y79AA1001391, Y79AA100 1394,
	Y79AA1001548, Y79AA1001613, Y79AA1001874, Y79AA1002258, Y79AA1002416, Y79AA10 02482,
20	(6) The following 301 clones were predicted to encode a protein in the category of enzyme or proteins associated with metabolism (including the clones belonging to plural categories).
	HEMBA1000012, HEMBA1000459, HEMBA1000852, HEMBA1001059, HEMBA1001257, HEMBA1001620,
	HEMBA1001714, HEMBA1001744, HEMBA1001896, HEMBA1002003, HEMBA1002212, HEMBA100225 7,
	HEMBA1002513, HEMBA1002973, HEMBA1003046, HEMBA1003136, HEMBA1003179, HEMBA10032 86,
25	HEMBA1003291, HEMBA1003538, HEMBA1003680, HEMBA1004227, HEMBA1004408, HEMBA1004 734,
	HEMBA1004795, HEMBA1005513, HEMBA1005737, HEMBA1005815, HEMBA1006278, HEMBA100 635,
	HEMBA1006521, HEMBA1006648, HEMBA1006877, HEMBA1006941, HEMBA1006976, HEMBA10 07121,
	HEMBA1007243, HEMBA1007300, HEMBB1000781, HEMBB1000915, HEMBB1001288, HEMBB1 001429,
	HEMBB1001443, HEMBB1001915, HEMBB1002042, HEMBB1002342, HEMBB1002358, HEMBB 1002635,
30	HEMBB1002683, MAMMA1000020, MAMMA1000085, MAMMA1000672, MAMMA1000841, MAMMA1001008,
	MAMMA1001139, MAMMA1001476, MAMMA1001501, MAMMA1002268, MAMMA1002530, MAM MA1002619,
	MAMMA1002671, MAMMA1002938, NT2RM1000132, NT2RM1000153, NT2RM1000256, NT 2RM1000280,
	NT2RM1000377, NT2RM1000648, NT2RM1000850, NT2RM1000867, NT2RM1000894, N T2RM1001072,
	NT2RM2000013, NT2RM2000124, NT2RM2000191, NT2RM2000368, NT2RM2000371, NT2RM2000577,
35	NT2RM2000584, NT2RM2000599, NT2RM2000951, NT2RM2001238, NT2RM2001664, NT2RM2001700,
	NT2RM2001730, NT2RM2001785, NT2RM2001803, NT2RM2002030, NT2RM4000002 4, NT2RM4000155,
	NT2RM4000344, NT2RM4000496, NT2RM4000616, NT2RM4000712, NT2RM40008 95, NT2RM4001313,
	NT2RM4001316, NT2RM4001340, NT2RM4001444, NT2RM4001758,
	NT2RM4001819, NT2RM4001930, NT2RM4002062, NT2RM4002063, NT2RM4002409, NT2RM4002558,
40	NT2RM4002571, NT2RM4002623, NT2RP1000018, NT2RP1000112, NT2RP1000376, NT2RP100060 9,
	NT2RP1000833, NT2RP1000834, NT2RP1001079, NT2RP1001253, NT2RP1001361, NT2RP10015 43,
	NT2RP2000056, NT2RP2000114, NT2RP2000183, NT2RP2000329, NT2RP2000422, NT2RP2000 710,
	NT2RP2000764, NT2RP2000932, NT2RP2001070, NT2RP2001663, NT2RP2001839, NT2RP200 1898,
	NT2RP2002256, NT2RP2002312, NT2RP2002442, NT2RP2002595, NT2RP2002618, NT2RP20 02993,
45	NT2RP2003230, NT2RP2003286, NT2RP2003506, NT2RP2003643, NT2RP2003706, NT2RP2 003737,
	NT2RP2003781, NT2RP2003912, NT2RP2004232, NT2RP2004239, NT2RP2004768, NT2RP 2004791,
	NT2RP2004799, NT2RP2005038, NT2RP2005276, NT2RP2005344, NT2RP2005457, NT2R P2005498,
	NT2RP2005531, NT2RP2005557, NT2RP2005690, NT2RP2005773, NT2RP2005775, NT2 RP2005942,
	NT2RP2006571, NT2RP3000046, NT2RP3000085, NT2RP3000359, NT2RP3000418, NT2 RP3000742,
50	NT2RP3000845, NT2RP3000875, NT2RP3001274, NT2RP3001407, NT2RP3001495, N T2RP3002351,
	NT2RP3002402, NT2RP3002969, NT2RP3003301, NT2RP3003346, NT2RP3003500, NT2RP3003800,
	NT2RP3003825, NT2RP3003831, NT2RP3003914, NT2RP3004155, NT2RP3004209, NT2RP3004669,
	NT2RP3004670, NT2RP4000029, NT2RP4000417, NT2RP4000457, NT2RP400072 4, NT2RP4000855,
	NT2RP4000928, NT2RP4000997, NT2RP4001041, NT2RP4001079, NT2RP40010 95, NT2RP4001219,
55	NT2RP4001345, NT2RP4001375, NT2RP4001483, NT2RP4001592,
	NT2RP4001644, NT2RP4001893, NT2RP4001946, NT2RP4002408, NT2RP5003500, NT2RP5003522,
	OVARC1000060, OVARC1000139, OVARC1000309, OVARC1000543, OVARC1000682, OVARC100072 2,
	OVARC1000885, OVARC1001261, OVARC1001610, OVARC1001713, OVARC1001760, OVARC10018 09,

OVARC1001942, PLACE1000007, PLACE1000142, PLACE1000420, PLACE1000547, PLACE1000 653,  
 PLACE1001062, PLACE1001603, PLACE1001692, PLACE1001817, PLACE1001989, PLACE100 2991,  
 PLACE1003100, PLACE1003709, PLACE1003885, PLACE1003903, PLACE1003915, PLACE1003968, PLACE1004428, PLACE1004437, PLACE1004751, PLACE1005305, PLACE1 005477,  
 5 PLACE1005656, PLACE1005763, PLACE1005804, PLACE1006011, PLACE1016469, PLACE 1006731,  
 PLACE1007729, PLACE1007958, PLACE1008275, PLACE1008356, PLACE1008966, PLAC E1009444,  
 PLACE1009861, PLACE1009997, PLACE1010089, PLACE1010096, PLACE1010106, PLAC E1010152,  
 PLACE1010481, PLACE1011046, PLACE1011203, PLACE1011219, PLACE1011229, PL ACE1011332,  
 PLACE1011923, PLACE2000021, PLACE2000140, PLACE2000404, PLACE2000411, P LACE3000020,  
 10 PLACE3000148, PLACE3000156, PLACE3000350, PLACE3000353, PLACE4000259, PLACE4000431,  
 PLACE4000558, PLACE4000590, SKNMC1000050, THYRO1000017, THYRO1000197, THYRO1000320,  
 THYRO1000358, THYRO1000471, THYRO1000926, THYRO1000934, THYRO100095 1, THYRO1001406,  
 THYRO1001617, THYRO1001671, Y79AA1001048, Y79AA1001233, Y79AA10015 81, Y79AA1001679,  
 Y79AA1001827, Y79AA1002027, Y79AA1002209, Y79AA1002361, Y79AA1002 416,

(7) The following 74 clones were predicted to encode a protein in the category of proteins associated with cell division or cell proliferation (including the clones belonging to plural categories).

HEMBA1001019, HEMBA1001595, HEMBA1002229, HEMBA1002363, HEMBA1003136, HEMBA1003836,  
 HEMBA1004131, HEMBA1005241, HEMBB1000399, HEMBB1001175, HEMBB1001242, MAMMA100182 0,  
 20 MAMMA1003011, NT2RM1000394, NT2RM2001256, NT2RM4000215, NT2RM4001611, NT2RM40017 14,  
 NT2RP1000733, NT2RP1001177, NT2RP2000077, NT2RP2000346, NT2RP2001397, NT2RP2003 912,  
 NT2RP2005520, NT2RP2005675, NT2RP2005767, NT2RP2005857, NT2RP2006464, NT2RP300 0031,  
 NT2RP3001155, NT2RP3001730, NT2RP3002151, NT2RP3002273, NT2RP3002399, NT2RP30 04507,  
 NT2RP3004578, NT2RP3004594, NT2RP4000210, NT2RP4000498, NT2RP4001207, NT2RP4 001414,  
 25 NT2RP4001551, OVARC1000006, OVARC1000087, OVARC1000113, OVARC1000846, OVARC 1000876,  
 OVARC1001068, OVARC1001107, OVARC1001113, OVARC1002112, PLACE1000547, PLAC E1001611,  
 PLACE1001691, PLACE1002775, PLACE1002811, PLACE1003709, PLACE1004316, PLA CE1004674,  
 PLACE1004814, PLACE1005287, PLACE1006187, PLACE1006368, PLACE1008808, PLAC E1008947,  
 PLACE1009060, PLACE1010720, PLACE1010761, PLACE1010833, PLACE1011056, P LACE3000244,  
 30 Y79AA1000214, Y79AA1001236,

(8) The following 92 clones were predicted to encode a protein in the category of proteins associated with cytoskeleton (including the clones belonging to plural categories).

HEMBA1000020, HEMBA1000588, HEMBA1001804, HEMBA1002102, HEMBA1002161, HEMBA1002939,  
 35 HEMBA1003235, HEMBA1003581, HEMBA1004534, HEMBA1005009, HEMBA1005595, HEMBA100627 2,  
 HEMBA1006737, HEMBA1007018, HEMBB1000404, HEMBB1001282, MAMMA1000173, MAMMA10004 29,  
 MAMMA1001041, MAMMA1001576, MAMMA1001735, MAMMA1002622, MAMMA1002637, MAMMA1003 099,  
 MAMMA1003127, NT2RM1000898, NT2RM1001003, NT2RM1001139, NT2RM2000691, NT2RM400 0030,  
 NT2RM4000167, NT2RM4000689, NT2RM4001741, NT2RM4001776, NT2RM4002109, NT2RP10 00348,  
 40 NT2RP1000460, NT2RP1000478, NT2RP1001033, NT2RP2000812, NT2RP2001634, NT2RP2 001900,  
 NT2RP2002727, NT2RP2003307, NT2RP2003604, NT2RP2004538, NT2RP2005531, NT2RP 3000868,  
 NT2RP3001216, NT2RP3001272, NT2RP3002688, NT2RP3003061, NT2RP3003138, NT2R P3003230,  
 NT2RP3003282, NT2RP3004454, NT2RP3004569, NT2RP4001126, NT2RP4001927, OVA RC1000437,  
 OVARC1000520, OVARC1000679, OVARC1001731, OVARC1002050, PLACE1002571, PL ACE1002591,  
 45 PLACE1002655, PLACE1003669, PLACE1004777, PLACE1005287, PLACE1006368, P LACE1007105,  
 PLACE1010310, PLACE1010743, PLACE1010960, PLACE1011263, PLACE2000039, PLACE2000216,  
 PLACE2000274, PLACE3000145, PLACE3000322, PLACE4000009, PLACE4000612, THYRO1000072,  
 THYRO1000666, THYRO1001121, THYRO1001458, Y79AA1000368, Y79AA100083 3, Y79AA1000962,  
 Y79AA1000985, Y79AA1002208,

(9) The following 280 clones were predicted to encode a protein in the category of proteins associated with RNA synthesis (including the clones belonging to plural categories).

HEMBA1000021, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000591, HEMBA1000851,  
 HEMBA1001137, HEMBA1001510, HEMBA1001579, HEMBA1001809, HEMBA100181 9,  
 55 HEMBA1001847, HEMBA1002035, HEMBA1002092, HEMBA1002569, HEMBA1002609, HEMBA10034 18,  
 HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA100404 097,  
 HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA1004469, HEMBA1004758, HEMBA100 5359,  
 HEMBA1005528, HEMBA1005548, HEMBA1005931, HEMBA1006253, HEMBA1006278, HEMBA10 06359,

HEMBA1006559, HEMBA1006639, HEMBB1000250, HEMBB1000789, HEMBB1001011, HEMBB1 001314, HEMBB1001482, HEMBB1001908, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAMMA 1000183, MAMMA1000388, MAMMA1001059, MAMMA1001633, MAMMA1001820, MAMMA1001837, MAMMA A1002650, MAMMA1002937, NT2RM1000055, NT2RM1000187, NT2RM1000666, NT2RM1000691, NT2 RM1000852, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT 2RM2001424, NT2RM2001575, NT2RM2001605, NT2RM2001670, NT2RM2001771, NT2RM2001797, N T2RM2001989, NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000104, NT2RM4000191, NT2RM4000421, NT2RM4000471, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140, NT2RM4001280, NT2RM4001483, NT2RM4001592, NT2RM400174 6, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RM4002020 93, NT2RM4002479, NT2RP1000111, NT2RP1000272, NT2RP1000333, NT2RP1000470, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1001080, NT2RP2000008, NT2RP2000133, NT2RP2000161, NT2RP2000297, NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP200144 9, NT2RP2002099, NT2RP2002252, NT2RP2002503, NT2RP2002591, NT2RP2002928, NT2RP20031 25, NT2RP2003228, NT2RP2003293, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2RP2004 187, NT2RP2004568, NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005126, NT2RP200 5168, NT2RP2005239, NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722, NT2RP20 05763, NT2RP2005942, NT2RP2006328, NT2RP2006464, NT2RP3000050, NT2RP3000361, NT2RP3 000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP3000632, NT2RP3000917, NT2RP 3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001399, NT2RP 3001671, NT2RP3001672, NT2RP3001698, NT2RP3001712, NT2RP3001792, NT2RP3001855, NT 2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP3003251, NT 2RP3003327, NT2RP3004013, NT2RP3004258, NT2RP3004504, NT2RP3004566, NT2RP3004572, N T2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP4000111, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000518, NT2RP4000614, NT2RP4000787, NT2RP4000865, NT2RP4000997, NT2RP4001029, NT2RP4001080, NT2RP4001148, NT2RP4001213, NT2RP4001433, NT2RP400152 9, NT2RP4001551, NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP40020 78, OVARC1000479, OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PLACE1000066, PLACE1000133, PLACE1000583, PLACE1000596, PLACE1000706, PLACE1001118, PLACE1001238, PLACE1001304, PLACE1001602, PLACE1001632, PLACE100245 0, PLACE1002532, PLACE1002834, PLACE1003190, PLACE1003302, PLACE1003603, PLACE10037 04, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004 681, PLACE1004902, PLACE1005646, PLACE1005876, PLACE1006196, PLACE1006414, PLACE100 6438, PLACE1006482, PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE10 07955, PLACE1007969, PLACE1008627, PLACE1008941, PLACE1009099, PLACE1009246, PLACE1 009398, PLACE1010053, PLACE1010194, PLACE1010261, PLACE1010491, PLACE1010580, PLACE 1010702, PLACE1010771, PLACE1010870, PLACE1011576, PLACE2000072, PLACE2000359, PLAC E A4000128, PLACE4000156, PLACE4000259, PLACE4000431, THYRO1000121, THYRO1000242, THY RO10000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000337, Y79AA1000349, Y7 9AA1000539, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1001105, Y79AA1001299, Y 79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(10) The following 352 clones were predicted to encode a protein in the category of nuclear protein (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000827, HEMBA1000851, HEMBA1001088, HEMBA1001137, HEMBA1001476, HEMBA1001510, HEMBA100157 9, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1002035, HEMBA10020 92, HEMBA1002363, HEMBA1002495, HEMBA1002569, HEMBA1002609, HEMBA1002999, HEMBA1003 148, HEMBA1003418, HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA100 3783, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA10 04669, HEMBA1004758, HEMBA1005359, HEMBA1005475, HEMBA1005528, HEMBA1005548, HEMBA1 005931, HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006474, HEMBA1006559, HEMBA 1006914, HEMBB1000250, HEMBB1000399, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMB B1001482, HEMBB1001908, HEMBB1001915, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAM MA1000183, MAMMA1000388, MAMMA1000731, MAMMA1001633, MAMMA1001820, MAMMA1001837, MA MMA1002650, MAMMA1002869, MAMMA1002937, MAMMA1003011, NT2RM1000055, NT2RM1000187, N T2RM1000257, NT2RM1000394, NT2RM1000666, NT2RM1000691, NT2RM1000852, NT2RM1000894, NT2RM1001092,



NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2RM2001605, NT2RM2001635,  
 NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2001823, NT2RM200193 6, NT2RM2001989,  
 NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000085, NT2RM400001 04, NT2RM4000191,  
 NT2RM4000215, NT2RM4000290, NT2RM4000421, NT2RM4000496,  
 5 NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140, NT2RM4001200,  
 NT2RM4001217, NT2RM4001382, NT2RM4001483, NT2RM4001592, NT2RM4001605, NT2RM400161 1,  
 NT2RM4001746, NT2RM4001783, NT2RM4001823, NT2RM4001858, NT2RM40019 79,  
 NT2RM4002093, NT2RM4002146, NT2RM4002527, NT2RP1000035, NT2RP1000111, NT2RP1000 333,  
 NT2RP1000493, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1000966, NT2RP100 1177,  
 10 NT2RP2000008, NT2RP2000126, NT2RP2000133, NT2RP2000161, NT2RP2000297, NT2RP20 00414,  
 NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2001420, NT2RP2001449, NT2RP2 001536,  
 NT2RP2001762, NT2RP2002185, NT2RP2002252, NT2RP2002259, NT2RP2002503, NT2RP 2002504,  
 NT2RP2002591, NT2RP2002993, NT2RP2003125, NT2RP2003228, NT2RP2003277, NT2RP 2003286,  
 NT2RP2003293, NT2RP2003308, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2 RP2004187,  
 15 NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005287, NT2RP2005496, NT 2RP2005520,  
 NT2RP2005539, NT2RP2005722, NT2RP2005767, NT2RP2005857, NT2RP2005942, NT2RP2006238,  
 NT2RP2006464, NT2RP2006031, NT2RP3000050, NT2RP3000361, NT2RP3000397, NT2RP3000512,  
 NT2RP3000527, NT2RP1000590, NT2RP3000603, NT2RP3000632, NT2RP3000917, NT2RP3001057,  
 NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001274, NT2RP300139 8, NT2RP3001399,  
 20 NT2RP3001427, NT2RP3001428, NT2RP3001587, NT2RP3001671, NT2RP30016 72, NT2RP3001686,  
 NT2RP3001712, NT2RP3001724, NT2RP3001792, NT2RP3001855,  
 NT2RP3002056, NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193 ,  
 NT2RP3003212, NT2RP3003251, NT2RP3003327, NT2RP3004206, NT2RP3004209, NT2RP300425 8,  
 NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP40001 11,  
 25 NT2RP4000150, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000457, NT2RP4000 518,  
 NT2RP4000787, NT2RP4000865, NT2RP4000997, NT2RP4001029, NT2RP4001080, NT2RP400 1148,  
 NT2RP4001207, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2RP4001551, NT2RP40 01638,  
 NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, NT2RP4000006, OVARC1 000087,  
 OVARC1000139, OVARC1000326, OVARC1000440, OVARC1000479, OVARC1000846, OVARC 1000883,  
 30 OVARC1001180, OVARC1001244, OVARC1001381, OVARC1001555, OVARC1001577, OVARC C1001702,  
 OVARC1001949, OVARC1002112, PLACE1000066, PLACE1000133, PLACE1000406, PLA CE1000583,  
 PLACE1000596, PLACE1000706, PLACE1001118, PLACE1001238, PLACE1001304, PL ACE1001602,  
 PLACE1001611, PLACE1001632, PLACE1002450, PLACE1002532, PLACE1002834, P LACE1003100,  
 PLACE1003190, PLACE1003302, PLACE1003605, PLACE1003704, PLACE1003738, PLACE1003885,  
 35 PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004681, PLACE1004902, PLACE1005287,  
 PLACE1005876, PLACE1006011, PLACE1006119, PLACE1006414, PLACE100643 8, PLACE1006482,  
 PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE100779 55, PLACE1007989,  
 PLACE1008044, PLACE1008177, PLACE1008603, PLACE1008627,  
 PLACE1008941, PLACE1008947, PLACE1009099, PLACE1009113, PLACE1009246, PLACE1009398 ,  
 40 PLACE1010152, PLACE1010194, PLACE1010261, PLACE1010491, PLACE1010702, PLACE101072 0,  
 PLACE1010771, PLACE1010870, PLACE1011056, PLACE1011229, PLACE1011576, PLACE10116 64,  
 PLACE2000072, PLACE2000059, PLACE2000411, PLACE4000014, PLACE4000016, PLACE4000 156,  
 PLACE4000259, PLACE4000261, PLACE4000431, THYRO1000121, THYRO1000242, THYRO100 0501,  
 THYRO1000585, THYRO1001120, THYRO1001189, Y79AA1000037, Y79AA1000214, Y79AA10 00539,  
 45 Y79AA1000589, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1000784, Y79AA1 001105,  
 Y79AA1001299, Y79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848, Y79AA 1001866,  
 Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(11) The following 111 clones were predicted to encode a protein in the category of proteins associated with protein synthesis or transport (including the clones belonging to plural categories).

50 HEMBA1000012, HEMBA1000542, HEMBA1001913, HEMBA1003773, HEMBA1004202, HEMBA1004356 ,  
 HEMBA1004847, HEMBA1005047, HEMBA1005202, HEMBA1005963, HEMBA1006310, HEMBA100665 2,  
 HEMBA1006914, HEMBB1000217, HEMBB1000725, HEMBB1001346, HEMBB1001831, MAMMA10000 85,  
 MAMMA1000734, MAMMA1002170, MAMMA1002236, MAMMA1002598, NT2RM1000661, NT2RM2000 504,  
 55 NT2RM2000577, NT2RM2001131, NT2RM4000155, NT2RM4001444, NT2RM4002062, NT2RM400 2205,  
 NT2RM4002623, NT2RP1000036, NT2RP1000947, NT2RP1001569, NT2RP20000710, NT2RP20 00880,  
 NT2RP2001290, NT2RP2001511, NT2RP2001660, NT2RP2002185, NT2RP2002206, NT2RP2 002959,  
 NT2RP2002980, NT2RP2003158, NT2RP2003760, NT2RP2004194, NT2RP2004791, NT2RP 2005012,

NT2RP2005116, NT2RP2005204, NT2RP2006565, NT2RP2006598, NT2RP3000047, NT2R P3000366,  
 NT2RP3000759, NT2RP3000968, NT2RP3001587, NT2RP3002529, NT2RP3003385, NT2 RP3003589,  
 NT2RP3003876, NT2RP3004618, NT2RP4000370, NT2RP4000524, NT2RP4000528, NT 2RP4001041,  
 NT2RP4001574, NT2RP4001592, NT2RP4002047, OVARC1000004, OVARC1000771, O VARC1000862,  
 5 OVARC1001180, OVARC1001342, OVARC1001766, OVARC1002138, PLACE1000061, PLACE1000492,  
 PLACE1000863, PLACE1001748, PLACE1002090, PLACE1003394, PLACE1003915, PLACE1004149,  
 PLACE1004743, PLACE1005557, PLACE1005813, PLACE1006488, PLACE100653 1, PLACE1006615,  
 PLACE1007706, PLACE1008273, PLACE1008790, PLACE1008813, PLACE10097 21, PLACE1009763,  
 PLACE1009845, PLACE1010074, PLACE1011109, PLACE1011477,  
 10 PLACE2000404, PLACE3000059, PLACE3000121, PLACE4000558, PLACE4000654, SKNMC1000011,  
 THYRO1000288, THYRO1000974, Y79AA1000346, Y79AA1000968, Y79AA1002209,

(12) The following 23 clones were predicted to encode a protein in the category of proteins associated with cellular defense (including the clones belonging to plural categories).

15 HEMBA1000005, HEMBA1000531, HEMBB1000217, HEMBB1000399, MAMMA1000734, NT2RP1000493,  
 NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2001536, NT2RP2005204, NT2RP3000059 0,  
 NT2RP3001426, NT2RP3002056, NT2RP3004262, NT2RP4001638, OVARC1001900, PLACE10056 11,  
 PLACE1006958, PLACE1008275, PLACE1009113, PLACE4000014, Y79AA1002139,

20 (13) The following 23 clones were predicted to encode a protein in the category of proteins associated with development or growth (including the clones belonging to plural categories).

25 HEMBB1001802, HEMBB1002442, NT2RM2002142, NT2RM4001047, NT2RP2003308, NT2RP2004816,  
 NT2RP3000994, NT2RP3001340, NT2RP3004206, NT2RP3004472, NT2RP4000246, NT2RP400100 6,  
 OVARC1000304, OVARC1000746, OVARC1000996, PLACE1006037, PLACE1009622, PLACE10116 64,  
 Y79AA1001692,

Table 9  
 Selected clones having the maximal ATGpr1 score of 0.3 or higher (3690 clones).

clone name	name of sequence	maximal ATGpr1 score
HEMBA1000005	F-HEMBA1000005	0.84
HEMBA1000012	F-HEMBA1000012	0.56
HEMBA1000020	F-HEMBA1000020	0.94
HEMBA1000030	F-HEMBA1000030	0.44
HEMBA1000046	F-HEMBA1000046	0.50
HEMBA1000050	F-HEMBA1000050	0.94
HEMBA1000076	F-HEMBA1000076	0.48
HEMBA1000129	F-HEMBA1000129	0.74
HEMBA1000141	F-HEMBA1000141	0.55
HEMBA1000150	F-HEMBA1000150	0.72
HEMBA1000156	F-HEMBA1000156	0.94
HEMBA1000158	F-HEMBA1000158	0.62
HEMBA1000168	F-HEMBA1000168	0.94
HEMBA1000185	F-HEMBA1000185	0.86
HEMBA1000193	F-HEMBA1000193	0.94

	HEMBA1000201	F-HEMBA1000201	0. 83
	HEMBA1000216	F-HEMBA1000216	0. 32
	HEMBA1000227	F-HEMBA1000227	0. 72
5	HEMBA1000231	F-HEMBA1000231	0. 34
	HEMBA1000244	F-HEMBA1000244	0. 51
	HEMBA1000288	F-HEMBA1000288	0. 36
	HEMBA1000290	F-HEMBA1000290	0. 45
10	HEMBA1000302	F-HEMBA1000302	0. 71
	HEMBA1000303	F-HEMBA1000303	0. 42
	HEMBA1000304	F-HEMBA1000304	0. 45
	HEMBA1000307	F-HEMBA1000307	0. 48
15	HEMBA1000327	F-HEMBA1000327	0. 94
	HEMBA1000356	F-HEMBA1000356	0. 90
	HEMBA1000369	F-HEMBA1000369	0. 94
	HEMBA1000387	F-HEMBA1000387	0. 66
20	HEMBA1000392	F-HEMBA1000392	0. 60
	HEMBA1000396	F-HEMBA1000396	0. 81
	HEMBA1000456	F-HEMBA1000456	0. 90
	HEMBA1000460	F-HEMBA1000460	0. 31
	HEMBA1000488	F-HEMBA1000488	0. 47
25	HEMBA1000490	F-HEMBA1000490	0. 89
	HEMBA1000491	F-HEMBA1000491	0. 94
	HEMBA1000501	F-HEMBA1000501	0. 67
30	HEMBA1000505	F-HEMBA1000505	0. 65
	HEMBA1000508	F-HEMBA1000508	0. 39
	HEMBA1000520	F-HEMBA1000520	0. 94
	HEMBA1000523	F-HEMBA1000523	0. 86
35	HEMBA1000531	F-HEMBA1000531	0. 49
	HEMBA1000534	F-HEMBA1000534	0. 52
	HEMBA1000542	F-HEMBA1000542	0. 81
	HEMBA1000555	F-HEMBA1000555	0. 67
40	HEMBA1000561	F-HEMBA1000561	0. 34
	HEMBA1000568	F-HEMBA1000568	0. 66
	HEMBA1000588	F-HEMBA1000588	0. 79
	HEMBA1000591	F-HEMBA1000591	0. 92
	HEMBA1000592	F-HEMBA1000592	0. 73
45	HEMBA1000594	F-HEMBA1000594	0. 89
	HEMBA1000608	F-HEMBA1000608	0. 94
	HEMBA1000636	F-HEMBA1000636	0. 94
	HEMBA1000637	F-HEMBA1000637	0. 92
50	HEMBA1000657	F-HEMBA1000657	0. 85
	HEMBA1000682	F-HEMBA1000682	0. 94
	HEMBA1000686	F-HEMBA1000686	0. 90
	HEMBA1000719	F-HEMBA1000719	0. 94
	HEMBA1000727	F-HEMBA1000727	0. 40
55	HEMBA1000752	F-HEMBA1000752	0. 31

	HEMBA1000817	F-HEMBA1000817	0. 94
	HEMBA1000851	F-HEMBA1000851	0. 63
	HEMBA1000867	F-HEMBA1000867	0. 68
5	HEMBA1000869	F-HEMBA1000869	0. 82
	HEMBA1000872	F-HEMBA1000872	0. 54
	HEMBA1000910	F-HEMBA1000910	0. 91
	HEMBA1000918	F-HEMBA1000918	0. 38
10	HEMBA1000919	F-HEMBA1000919	0. 83
	HEMBA1000942	F-HEMBA1000942	0. 31
	HEMBA1000946	F-HEMBA1000946	0. 75
	HEMBA1000968	F-HEMBA1000968	0. 39
15	HEMBA1000971	F-HEMBA1000971	0. 74
	HEMBA1000975	F-HEMBA1000975	0. 46
	HEMBA1000986	F-HEMBA1000986	0. 89
	HEMBA1001008	F-HEMBA1001008	0. 47
20	HEMBA1001009	F-HEMBA1001009	0. 86
	HEMBA1001022	F-HEMBA1001022	0. 57
	HEMBA1001043	F-HEMBA1001043	0. 79
	HEMBA1001052	F-HEMBA1001052	0. 83
25	HEMBA1001059	F-HEMBA1001059	0. 78
	HEMBA1001080	F-HEMBA1001080	0. 77
	HEMBA1001085	F-HEMBA1001085	0. 92
	HEMBA1001088	F-HEMBA1001088	0. 94
30	HEMBA1001109	F-HEMBA1001109	0. 50
	HEMBA1001122	F-HEMBA1001122	0. 74
	HEMBA1001133	F-HEMBA1001133	0. 45
	HEMBA1001137	F-HEMBA1001137	0. 37
35	HEMBA1001140	F-HEMBA1001140	0. 43
	HEMBA1001174	F-HEMBA1001174	0. 44
	HEMBA1001197	F-HEMBA1001197	0. 65
	HEMBA1001213	F-HEMBA1001213	0. 61
40	HEMBA1001235	F-HEMBA1001235	0. 94
	HEMBA1001247	F-HEMBA1001247	0. 31
	HEMBA1001257	F-HEMBA1001257	0. 92
	HEMBA1001281	F-HEMBA1001281	0. 94
45	HEMBA1001286	F-HEMBA1001286	0. 49
	HEMBA1001289	F-HEMBA1001289	0. 94
	HEMBA1001302	F-HEMBA1001302	0. 62
	HEMBA1001303	F-HEMBA1001303	0. 79
50	HEMBA1001310	F-HEMBA1001310	0. 66
	HEMBA1001326	F-HEMBA1001326	0. 59
	HEMBA1001351	F-HEMBA1001351	0. 65
	HEMBA1001361	F-HEMBA1001361	0. 94
	HEMBA1001377	F-HEMBA1001377	0. 87
55	HEMBA1001387	F-HEMBA1001387	0. 94
	HEMBA1001388	F-HEMBA1001388	0. 57

	HEMBA1001398	F-HEMBA1001398	0.74
	HEMBA1001405	F-HEMBA1001405	0.61
	HEMBA1001407	F-HEMBA1001407	0.43
5	HEMBA1001413	F-HEMBA1001413	0.40
	HEMBA1001415	F-HEMBA1001415	0.94
	HEMBA1001446	F-HEMBA1001446	0.90
10	HEMBA1001450	F-HEMBA1001450	0.40
	HEMBA1001455	F-HEMBA1001455	0.73
	HEMBA1001476	F-HEMBA1001476	0.65
	HEMBA1001497	F-HEMBA1001497	0.48
15	HEMBA1001510	F-HEMBA1001510	0.36
	HEMBA1001526	F-HEMBA1001526	0.66
	HEMBA1001533	F-HEMBA1001533	0.46
	HEMBA1001569	F-HEMBA1001569	0.73
20	HEMBA1001570	F-HEMBA1001570	0.53
	HEMBA1001579	F-HEMBA1001579	0.82
	HEMBA1001581	F-HEMBA1001581	0.80
	HEMBA1001595	F-HEMBA1001595	0.72
25	HEMBA1001620	F-HEMBA1001620	0.94
	HEMBA1001635	F-HEMBA1001635	0.87
	HEMBA1001640	F-HEMBA1001640	0.82
	HEMBA1001647	F-HEMBA1001647	0.91
30	HEMBA1001655	F-HEMBA1001655	0.39
	HEMBA1001661	F-HEMBA1001661	0.86
	HEMBA1001672	F-HEMBA1001672	0.94
	HEMBA1001702	F-HEMBA1001702	0.72
	HEMBA1001711	F-HEMBA1001711	0.74
35	HEMBA1001714	F-HEMBA1001714	0.89
	HEMBA1001723	F-HEMBA1001723	0.94
	HEMBA1001731	F-HEMBA1001731	0.37
	HEMBA1001744	F-HEMBA1001744	0.31
40	HEMBA1001746	F-HEMBA1001746	0.39
	HEMBA1001781	F-HEMBA1001781	0.67
	HEMBA1001800	F-HEMBA1001800	0.69
	HEMBA1001804	F-HEMBA1001804	0.85
45	HEMBA1001809	F-HEMBA1001809	0.78
	HEMBA1001815	F-HEMBA1001815	0.49
	HEMBA1001819	F-HEMBA1001819	0.90
	HEMBA1001822	F-HEMBA1001822	0.80
50	HEMBA1001824	F-HEMBA1001824	0.68
	HEMBA1001847	F-HEMBA1001847	0.46
	HEMBA1001864	F-HEMBA1001864	0.34
	HEMBA1001866	F-HEMBA1001866	0.53
	HEMBA1001869	F-HEMBA1001869	0.69
55	HEMBA1001896	F-HEMBA1001896	0.48
	HEMBA1001910	F-HEMBA1001910	0.84

	HEMBA1001912	F-HEMBA1001912	0.48
	HEMBA1001913	F-HEMBA1001913	0.94
	HEMBA1001915	F-HEMBA1001915	0.41
5	HEMBA1001921	F-HEMBA1001921	0.94
	HEMBA1001939	F-HEMBA1001939	0.87
	HEMBA1001950	F-HEMBA1001950	0.36
	HEMBA1001967	F-HEMBA1001967	0.94
10	HEMBA1001987	F-HEMBA1001987	0.41
	HEMBA1002018	F-HEMBA1002018	0.41
	HEMBA1002035	F-HEMBA1002035	0.36
	HEMBA1002049	F-HEMBA1002049	0.39
15	HEMBA1002084	F-HEMBA1002084	0.45
	HEMBA1002092	F-HEMBA1002092	0.94
	HEMBA1002102	F-HEMBA1002102	0.94
	HEMBA1002119	F-HEMBA1002119	0.60
20	HEMBA1002125	F-HEMBA1002125	0.88
	HEMBA1002150	F-HEMBA1002150	0.31
	HEMBA1002151	F-HEMBA1002151	0.82
	HEMBA1002161	F-HEMBA1002161	0.94
25	HEMBA1002177	F-HEMBA1002177	0.38
	HEMBA1002189	F-HEMBA1002189	0.43
	HEMBA1002191	F-HEMBA1002191	0.94
	HEMBA1002199	F-HEMBA1002199	0.85
30	HEMBA1002212	F-HEMBA1002212	0.39
	HEMBA1002215	F-HEMBA1002215	0.94
	HEMBA1002229	F-HEMBA1002229	0.83
	HEMBA1002237	F-HEMBA1002237	0.86
35	HEMBA1002241	F-HEMBA1002241	0.66
	HEMBA1002265	F-HEMBA1002265	0.38
	HEMBA1002267	F-HEMBA1002267	0.33
	HEMBA1002341	F-HEMBA1002341	0.53
40	HEMBA1002363	F-HEMBA1002363	0.88
	HEMBA1002417	F-HEMBA1002417	0.83
	HEMBA1002419	F-HEMBA1002419	0.92
	HEMBA1002430	F-HEMBA1002430	0.45
45	HEMBA1002439	F-HEMBA1002439	0.83
	HEMBA1002458	F-HEMBA1002458	0.47
	HEMBA1002460	F-HEMBA1002460	0.48
	HEMBA1002462	F-HEMBA1002462	0.55
	HEMBA1002469	F-HEMBA1002469	0.79
50	HEMBA1002475	F-HEMBA1002475	0.88
	HEMBA1002477	F-HEMBA1002477	0.45
	HEMBA1002495	F-HEMBA1002495	0.78
	HEMBA1002503	F-HEMBA1002503	0.94
55	HEMBA1002508	F-HEMBA1002508	0.33
	HEMBA1002513	F-HEMBA1002513	0.41

	HEMBA1002515	F-HEMBA1002515	0.94
	HEMBA1002542	F-HEMBA1002542	0.46
5	HEMBA1002547	F-HEMBA1002547	0.45
	HEMBA1002569	F-HEMBA1002569	0.86
	HEMBA1002583	F-HEMBA1002583	0.86
	HEMBA1002609	F-HEMBA1002609	0.75
10	HEMBA1002624	F-HEMBA1002624	0.59
	HEMBA1002688	F-HEMBA1002688	0.88
	HEMBA1002696	F-HEMBA1002696	0.82
	HEMBA1002703	F-HEMBA1002703	0.94
	HEMBA1002746	F-HEMBA1002746	0.33
15	HEMBA1002750	F-HEMBA1002750	0.53
	HEMBA1002768	F-HEMBA1002768	0.94
	HEMBA1002770	F-HEMBA1002770	0.61
	HEMBA1002777	F-HEMBA1002777	0.90
20	HEMBA1002779	F-HEMBA1002779	0.92
	HEMBA1002794	F-HEMBA1002794	0.86
	HEMBA1002810	F-HEMBA1002810	0.87
	HEMBA1002816	F-HEMBA1002816	0.91
25	HEMBA1002818	F-HEMBA1002818	0.94
	HEMBA1002850	F-HEMBA1002850	0.57
	HEMBA1002863	F-HEMBA1002863	0.48
	HEMBA1002876	F-HEMBA1002876	0.86
30	HEMBA1002935	F-HEMBA1002935	0.91
	HEMBA1002937	F-HEMBA1002937	0.61
	HEMBA1002939	F-HEMBA1002939	0.32
	HEMBA1002951	F-HEMBA1002951	0.83
35	HEMBA1002954	F-HEMBA1002954	0.67
	HEMBA1002970	F-HEMBA1002970	0.33
	HEMBA1002971	F-HEMBA1002971	0.57
	HEMBA1002973	F-HEMBA1002973	0.33
40	HEMBA1002997	F-HEMBA1002997	0.46
	HEMBA1002999	F-HEMBA1002999	0.49
	HEMBA1003021	F-HEMBA1003021	0.74
	HEMBA1003033	F-HEMBA1003033	0.94
	HEMBA1003035	F-HEMBA1003035	0.61
45	HEMBA1003041	F-HEMBA1003041	0.40
	HEMBA1003046	F-HEMBA1003046	0.94
	HEMBA1003067	F-HEMBA1003067	0.34
	HEMBA1003077	F-HEMBA1003077	0.83
50	HEMBA1003078	F-HEMBA1003078	0.89
	HEMBA1003079	F-HEMBA1003079	0.49
	HEMBA1003096	F-HEMBA1003096	0.34
	HEMBA1003117	F-HEMBA1003117	0.94
55	HEMBA1003129	F-HEMBA1003129	0.81
	HEMBA1003136	F-HEMBA1003136	0.77

	HEMBA1003148	F-HEMBA1003148	0. 91
	HEMBA1003175	F-HEMBA1003175	0. 41
5	HEMBA1003179	F-HEMBA1003179	0. 42
	HEMBA1003199	F-HEMBA1003199	0. 84
	HEMBA1003222	F-HEMBA1003222	0. 47
	HEMBA1003235	F-HEMBA1003235	0. 94
10	HEMBA1003250	F-HEMBA1003250	0. 39
	HEMBA1003257	F-HEMBA1003257	0. 88
	HEMBA1003281	F-HEMBA1003281	0. 67
	HEMBA1003286	F-HEMBA1003286	0. 57
15	HEMBA1003291	F-HEMBA1003291	0. 89
	HEMBA1003322	F-HEMBA1003322	0. 60
	HEMBA1003327	F-HEMBA1003327	0. 88
	HEMBA1003369	F-HEMBA1003369	0. 89
	HEMBA1003370	F-HEMBA1003370	0. 75
20	HEMBA1003380	F-HEMBA1003380	0. 68
	HEMBA1003395	F-HEMBA1003395	0. 88
	HEMBA1003402	F-HEMBA1003402	0. 45
	HEMBA1003403	F-HEMBA1003403	0. 44
25	HEMBA1003408	F-HEMBA1003408	0. 34
	HEMBA1003417	F-HEMBA1003417	0. 78
	HEMBA1003418	F-HEMBA1003418	0. 94
	HEMBA1003433	F-HEMBA1003433	0. 70
30	HEMBA1003447	F-HEMBA1003447	0. 49
	HEMBA1003461	F-HEMBA1003461	0. 85
	HEMBA1003463	F-HEMBA1003463	0. 59
	HEMBA1003480	F-HEMBA1003480	0. 94
35	HEMBA1003528	F-HEMBA1003528	0. 90
	HEMBA1003538	F-HEMBA1003538	0. 47
	HEMBA1003545	F-HEMBA1003545	0. 74
	HEMBA1003555	F-HEMBA1003555	0. 94
	HEMBA1003556	F-HEMBA1003556	0. 44
40	HEMBA1003560	F-HEMBA1003560	0. 40
	HEMBA1003568	F-HEMBA1003568	0. 94
	HEMBA1003569	F-HEMBA1003569	0. 82
	HEMBA1003581	F-HEMBA1003581	0. 83
45	HEMBA1003591	F-HEMBA1003591	0. 68
	HEMBA1003615	F-HEMBA1003615	0. 94
	HEMBA1003617	F-HEMBA1003617	0. 88
	HEMBA1003621	F-HEMBA1003621	0. 47
50	HEMBA1003645	F-HEMBA1003645	0. 75
	HEMBA1003646	F-HEMBA1003646	0. 51
	HEMBA1003662	F-HEMBA1003662	0. 61
	HEMBA1003667	F-HEMBA1003667	0. 54
55	HEMBA1003679	F-HEMBA1003679	0. 72
	HEMBA1003680	F-HEMBA1003680	0. 52



	HEMBA1003684	F-HEMBA1003684	0. 94
	HEMBA1003690	F-HEMBA1003690	0. 93
	HEMBA1003692	F-HEMBA1003692	0. 46
5	HEMBA1003711	F-HEMBA1003711	0. 94
	HEMBA1003720	F-HEMBA1003720	0. 94
	HEMBA1003729	F-HEMBA1003729	0. 73
	HEMBA1003742	F-HEMBA1003742	0. 94
10	HEMBA1003760	F-HEMBA1003760	0. 75
	HEMBA1003783	F-HEMBA1003783	0. 31
	HEMBA1003799	F-HEMBA1003799	0. 70
	HEMBA1003803	F-HEMBA1003803	0. 87
15	HEMBA1003804	F-HEMBA1003804	0. 94
	HEMBA1003805	F-HEMBA1003805	0. 94
	HEMBA1003807	F-HEMBA1003807	0. 91
	HEMBA1003827	F-HEMBA1003827	0. 62
20	HEMBA1003836	F-HEMBA1003836	0. 69
	HEMBA1003838	F-HEMBA1003838	0. 80
	HEMBA1003864	F-HEMBA1003864	0. 94
	HEMBA1003866	F-HEMBA1003866	0. 32
25	HEMBA1003879	F-HEMBA1003879	0. 82
	HEMBA1003880	F-HEMBA1003880	0. 59
	HEMBA1003893	F-HEMBA1003893	0. 47
	HEMBA1003953	F-HEMBA1003953	0. 77
30	HEMBA1003959	F-HEMBA1003959	0. 32
	HEMBA1003978	F-HEMBA1003978	0. 37
	HEMBA1003985	F-HEMBA1003985	0. 31
	HEMBA1003989	F-HEMBA1003989	0. 75
35	HEMBA1004011	F-HEMBA1004011	0. 34
	HEMBA1004048	F-HEMBA1004048	0. 32
	HEMBA1004055	F-HEMBA1004055	0. 74
	HEMBA1004056	F-HEMBA1004056	0. 49
40	HEMBA1004074	F-HEMBA1004074	0. 39
	HEMBA1004086	F-HEMBA1004086	0. 45
	HEMBA1004097	F-HEMBA1004097	0. 82
	HEMBA1004111	F-HEMBA1004111	0. 94
	HEMBA1004131	F-HEMBA1004131	0. 84
45	HEMBA1004133	F-HEMBA1004133	0. 40
	HEMBA1004143	F-HEMBA1004143	0. 33
	HEMBA1004146	F-HEMBA1004146	0. 31
	HEMBA1004150	F-HEMBA1004150	0. 70
50	HEMBA1004168	F-HEMBA1004168	0. 34
	HEMBA1004199	F-HEMBA1004199	0. 34
	HEMBA1004200	F-HEMBA1004200	0. 40
	HEMBA1004202	F-HEMBA1004202	0. 88
	HEMBA1004203	F-HEMBA1004203	0. 94
55	HEMBA1004207	F-HEMBA1004207	0. 53

	HEMBA1004227	F-HEMBA1004227	0. 94
	HEMBA1004238	F-HEMBA1004238	0. 44
5	HEMBA1004246	F-HEMBA1004246	0. 71
	HEMBA1004248	F-HEMBA1004248	0. 40
	HEMBA1004264	F-HEMBA1004264	0. 94
	HEMBA1004274	F-HEMBA1004274	0. 88
10	HEMBA1004275	F-HEMBA1004275	0. 85
	HEMBA1004276	F-HEMBA1004276	0. 32
	HEMBA1004286	F-HEMBA1004286	0. 37
	HEMBA1004289	F-HEMBA1004289	0. 76
	HEMBA1004321	F-HEMBA1004321	0. 82
15	HEMBA1004327	F-HEMBA1004327	0. 40
	HEMBA1004330	F-HEMBA1004330	0. 84
	HEMBA1004335	F-HEMBA1004335	0. 79
	HEMBA1004341	F-HEMBA1004341	0. 38
20	HEMBA1004353	F-HEMBA1004353	0. 79
	HEMBA1004372	F-HEMBA1004372	0. 94
	HEMBA1004389	F-HEMBA1004389	0. 32
	HEMBA1004408	F-HEMBA1004408	0. 70
25	HEMBA1004479	F-HEMBA1004479	0. 55
	HEMBA1004499	F-HEMBA1004499	0. 62
	HEMBA1004502	F-HEMBA1004502	0. 31
	HEMBA1004507	F-HEMBA1004507	0. 71
30	HEMBA1004509	F-HEMBA1004509	0. 68
	HEMBA1004534	F-HEMBA1004534	0. 56
	HEMBA1004542	F-HEMBA1004542	0. 36
	HEMBA1004554	F-HEMBA1004554	0. 90
35	HEMBA1004560	F-HEMBA1004560	0. 57
	HEMBA1004573	F-HEMBA1004573	0. 93
	HEMBA1004596	F-HEMBA1004596	0. 45
	HEMBA1004604	F-HEMBA1004604	0. 91
40	HEMBA1004610	F-HEMBA1004610	0. 59
	HEMBA1004632	F-HEMBA1004632	0. 59
	HEMBA1004637	F-HEMBA1004637	0. 38
	HEMBA1004638	F-HEMBA1004638	0. 40
	HEMBA1004669	F-HEMBA1004669	0. 94
45	HEMBA1004693	F-HEMBA1004693	0. 52
	HEMBA1004697	F-HEMBA1004697	0. 94
	HEMBA1004705	F-HEMBA1004705	0. 94
	HEMBA1004709	F-HEMBA1004709	0. 77
50	HEMBA1004711	F-HEMBA1004711	0. 73
	HEMBA1004725	F-HEMBA1004725	0. 94
	HEMBA1004734	F-HEMBA1004734	0. 94
	HEMBA1004736	F-HEMBA1004736	0. 94
55	HEMBA1004751	F-HEMBA1004751	0. 64
	HEMBA1004752	F-HEMBA1004752	0. 87

	HEMBA1004753	F-HEMBA1004753	0. 54
	HEMBA1004756	F-HEMBA1004756	0. 54
5	HEMBA1004758	F-HEMBA1004758	0. 69
	HEMBA1004763	F-HEMBA1004763	0. 94
	HEMBA1004768	F-HEMBA1004768	0. 66
	HEMBA1004771	F-HEMBA1004771	0. 72
10	HEMBA1004776	F-HEMBA1004776	0. 49
	HEMBA1004795	F-HEMBA1004795	0. 46
	HEMBA1004806	F-HEMBA1004806	0. 32
	HEMBA1004847	F-HEMBA1004847	0. 79
	HEMBA1004850	F-HEMBA1004850	0. 94
15	HEMBA1004863	F-HEMBA1004863	0. 32
	HEMBA1004864	F-HEMBA1004864	0. 94
	HEMBA1004889	F-HEMBA1004889	0. 94
	HEMBA1004923	F-HEMBA1004923	0. 70
20	HEMBA1004929	F-HEMBA1004929	0. 31
	HEMBA1004930	F-HEMBA1004930	0. 90
	HEMBA1004933	F-HEMBA1004933	0. 84
	HEMBA1004934	F-HEMBA1004934	0. 34
25	HEMBA1004944	F-HEMBA1004944	0. 40
	HEMBA1004954	F-HEMBA1004954	0. 62
	HEMBA1004972	F-HEMBA1004972	0. 90
	HEMBA1004973	F-HEMBA1004973	0. 94
30	HEMBA1004977	F-HEMBA1004977	0. 77
	HEMBA1004980	F-HEMBA1004980	0. 33
	HEMBA1005009	F-HEMBA1005009	0. 94
	HEMBA1005019	F-HEMBA1005019	0. 32
35	HEMBA1005029	F-HEMBA1005029	0. 84
	HEMBA1005035	F-HEMBA1005035	0. 91
	HEMBA1005047	F-HEMBA1005047	0. 94
	HEMBA1005050	F-HEMBA1005050	0. 88
40	HEMBA1005066	F-HEMBA1005066	0. 79
	HEMBA1005075	F-HEMBA1005075	0. 31
	HEMBA1005079	F-HEMBA1005079	0. 35
	HEMBA1005083	F-HEMBA1005083	0. 43
	HEMBA1005101	F-HEMBA1005101	0. 94
45	HEMBA1005113	F-HEMBA1005113	0. 38
	HEMBA1005133	F-HEMBA1005133	0. 34
	HEMBA1005149	F-HEMBA1005149	0. 36
	HEMBA1005185	F-HEMBA1005185	0. 64
50	HEMBA1005201	F-HEMBA1005201	0. 83
	HEMBA1005202	F-HEMBA1005202	0. 94
	HEMBA1005206	F-HEMBA1005206	0. 94
	HEMBA1005219	F-HEMBA1005219	0. 57
55	HEMBA1005223	F-HEMBA1005223	0. 33
	HEMBA1005244	F-HEMBA1005244	0. 35

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	HEMBA1005252	F-HEMBA1005252	0. 80
	HEMBA1005296	F-HEMBA1005296	0. 94
	HEMBA1005314	F-HEMBA1005314	0. 94
5	HEMBA1005331	F-HEMBA1005331	0. 69
	HEMBA1005338	F-HEMBA1005338	0. 94
	HEMBA1005367	F-HEMBA1005367	0. 50
	HEMBA1005382	F-HEMBA1005382	0. 91
10	HEMBA1005394	F-HEMBA1005394	0. 45
	HEMBA1005403	F-HEMBA1005403	0. 94
	HEMBA1005411	F-HEMBA1005411	0. 33
	HEMBA1005423	F-HEMBA1005423	0. 64
15	HEMBA1005468	F-HEMBA1005468	0. 33
	HEMBA1005469	F-HEMBA1005469	0. 59
	HEMBA1005472	F-HEMBA1005472	0. 32
	HEMBA1005474	F-HEMBA1005474	0. 51
20	HEMBA1005475	F-HEMBA1005475	0. 36
	HEMBA1005513	F-HEMBA1005513	0. 94
	HEMBA1005517	F-HEMBA1005517	0. 94
	HEMBA1005518	F-HEMBA1005518	0. 39
25	HEMBA1005526	F-HEMBA1005526	0. 62
	HEMBA1005528	F-HEMBA1005528	0. 81
	HEMBA1005530	F-HEMBA1005530	0. 62
	HEMBA1005548	F-HEMBA1005548	0. 94
	HEMBA1005558	F-HEMBA1005558	0. 94
30	HEMBA1005576	F-HEMBA1005576	0. 49
	HEMBA1005581	F-HEMBA1005581	0. 53
	HEMBA1005582	F-HEMBA1005582	0. 34
	HEMBA1005583	F-HEMBA1005583	0. 94
35	HEMBA1005595	F-HEMBA1005595	0. 93
	HEMBA1005609	F-HEMBA1005609	0. 34
	HEMBA1005621	F-HEMBA1005621	0. 94
	HEMBA1005666	F-HEMBA1005666	0. 57
40	HEMBA1005680	F-HEMBA1005680	0. 38
	HEMBA1005685	F-HEMBA1005685	0. 32
	HEMBA1005732	F-HEMBA1005732	0. 33
	HEMBA1005737	F-HEMBA1005737	0. 92
45	HEMBA1005746	F-HEMBA1005746	0. 37
	HEMBA1005755	F-HEMBA1005755	0. 94
	HEMBA1005813	F-HEMBA1005813	0. 33
	HEMBA1005815	F-HEMBA1005815	0. 82
50	HEMBA1005822	F-HEMBA1005822	0. 83
	HEMBA1005834	F-HEMBA1005834	0. 70
	HEMBA1005852	F-HEMBA1005852	0. 76
	HEMBA1005884	F-HEMBA1005884	0. 79
	HEMBA1005891	F-HEMBA1005891	0. 94
55	HEMBA1005963	F-HEMBA1005963	0. 40

	HEMBA1005990	F-HEMBA1005990	0.82
	HEMBA1005991	F-HEMBA1005991	0.43
	HEMBA1006031	F-HEMBA1006031	0.55
5	HEMBA1006035	F-HEMBA1006035	0.43
	HEMBA1006081	F-HEMBA1006081	0.36
	HEMBA1006091	F-HEMBA1006091	0.81
	HEMBA1006100	F-HEMBA1006100	0.31
10	HEMBA1006108	F-HEMBA1006108	0.80
	HEMBA1006121	F-HEMBA1006121	0.45
	HEMBA1006130	F-HEMBA1006130	0.46
	HEMBA1006138	F-HEMBA1006138	0.48
15	HEMBA1006155	F-HEMBA1006155	0.72
	HEMBA1006173	F-HEMBA1006173	0.42
	HEMBA1006182	F-HEMBA1006182	0.73
	HEMBA1006198	F-HEMBA1006198	0.94
20	HEMBA1006235	F-HEMBA1006235	0.58
	HEMBA1006248	F-HEMBA1006248	0.57
	HEMBA1006252	F-HEMBA1006252	0.31
	HEMBA1006272	F-HEMBA1006272	0.54
25	HEMBA1006278	F-HEMBA1006278	0.92
	HEMBA1006283	F-HEMBA1006283	0.90
	HEMBA1006284	F-HEMBA1006284	0.93
	HEMBA1006291	F-HEMBA1006291	0.38
30	HEMBA1006293	F-HEMBA1006293	0.89
	HEMBA1006309	F-HEMBA1006309	0.94
	HEMBA1006310	F-HEMBA1006310	0.67
	HEMBA1006344	F-HEMBA1006344	0.94
35	HEMBA1006347	F-HEMBA1006347	0.94
	HEMBA1006349	F-HEMBA1006349	0.56
	HEMBA1006377	F-HEMBA1006377	0.94
	HEMBA1006381	F-HEMBA1006381	0.33
	HEMBA1006398	F-HEMBA1006398	0.71
40	HEMBA1006424	F-HEMBA1006424	0.40
	HEMBA1006445	F-HEMBA1006445	0.86
	HEMBA1006467	F-HEMBA1006467	0.55
	HEMBA1006474	F-HEMBA1006474	0.66
45	HEMBA1006483	F-HEMBA1006483	0.71
	HEMBA1006485	F-HEMBA1006485	0.87
	HEMBA1006492	F-HEMBA1006492	0.73
	HEMBA1006494	F-HEMBA1006494	0.90
50	HEMBA1006497	F-HEMBA1006497	0.77
	HEMBA1006502	F-HEMBA1006502	0.80
	HEMBA1006507	F-HEMBA1006507	0.56
	HEMBA1006521	F-HEMBA1006521	0.91
	HEMBA1006530	F-HEMBA1006530	0.37
55	HEMBA1006535	F-HEMBA1006535	0.56

	HEMBA1006559	F-HEMBA1006559	0.39
	HEMBA1006566	F-HEMBA1006566	0.41
	HEMBA1006579	F-HEMBA1006579	0.83
5	HEMBA1006583	F-HEMBA1006583	0.31
	HEMBA1006612	F-HEMBA1006612	0.55
	HEMBA1006624	F-HEMBA1006624	0.94
	HEMBA1006631	F-HEMBA1006631	0.74
10	HEMBA1006643	F-HEMBA1006643	0.38
	HEMBA1006652	F-HEMBA1006652	0.93
	HEMBA1006659	F-HEMBA1006659	0.63
	HEMBA1006674	F-HEMBA1006674	0.54
15	HEMBA1006682	F-HEMBA1006682	0.34
	HEMBA1006708	F-HEMBA1006708	0.40
	HEMBA1006709	F-HEMBA1006709	0.41
	HEMBA1006717	F-HEMBA1006717	0.43
20	HEMBA1006737	F-HEMBA1006737	0.72
	HEMBA1006754	F-HEMBA1006754	0.45
	HEMBA1006758	F-HEMBA1006758	0.60
	HEMBA1006767	F-HEMBA1006767	0.61
	HEMBA1006789	F-HEMBA1006789	0.34
25	HEMBA1006795	F-HEMBA1006795	0.48
	HEMBA1006796	F-HEMBA1006796	0.41
	HEMBA1006807	F-HEMBA1006807	0.34
30	HEMBA1006832	F-HEMBA1006832	0.59
	HEMBA1006877	F-HEMBA1006877	0.90
	HEMBA1006885	F-HEMBA1006885	0.80
	HEMBA1006900	F-HEMBA1006900	0.34
35	HEMBA1006914	F-HEMBA1006914	0.78
	HEMBA1006926	F-HEMBA1006926	0.67
	HEMBA1006936	F-HEMBA1006936	0.65
	HEMBA1006941	F-HEMBA1006941	0.94
	HEMBA1006973	F-HEMBA1006973	0.64
40	HEMBA1006976	F-HEMBA1006976	0.40
	HEMBA1006993	F-HEMBA1006993	0.81
	HEMBA1006996	F-HEMBA1006996	0.77
	HEMBA1007002	F-HEMBA1007002	0.72
45	HEMBA1007018	F-HEMBA1007018	0.31
	HEMBA1007052	F-HEMBA1007052	0.41
	HEMBA1007062	F-HEMBA1007062	0.39
	HEMBA1007066	F-HEMBA1007066	0.35
50	HEMBA1007080	F-HEMBA1007080	0.43
	HEMBA1007085	F-HEMBA1007085	0.73
	HEMBA1007087	F-HEMBA1007087	0.94
	HEMBA1007112	F-HEMBA1007112	0.49
55	HEMBA1007121	F-HEMBA1007121	0.70
	HEMBA1007149	F-HEMBA1007149	0.94

	HEMBA1007151	F-HEMBA1007151	0.80
	HEMBA1007174	F-HEMBA1007174	0.63
	HEMBA1007178	F-HEMBA1007178	0.47
5	HEMBA1007194	F-HEMBA1007194	0.94
	HEMBA1007203	F-HEMBA1007203	0.48
	HEMBA1007224	F-HEMBA1007224	0.74
	HEMBA1007243	F-HEMBA1007243	0.94
10	HEMBA1007251	F-HEMBA1007251	0.79
	HEMBA1007267	F-HEMBA1007267	0.86
	HEMBA1007281	F-HEMBA1007281	0.61
	HEMBA1007300	F-HEMBA1007300	0.87
15	HEMBA1007301	F-HEMBA1007301	0.38
	HEMBA1007319	F-HEMBA1007319	0.47
	HEMBA1007320	F-HEMBA1007320	0.69
	HEMBA1007342	F-HEMBA1007342	0.80
20	HEMBS1000008	F-HEMBS1000008	0.39
	HEMBS1000018	F-HEMBS1000018	0.79
	HEMBS1000024	F-HEMBS1000024	0.62
	HEMBS1000025	F-HEMBS1000025	0.66
25	HEMBS1000030	F-HEMBS1000030	0.33
	HEMBS1000036	F-HEMBS1000036	0.75
	HEMBS1000037	F-HEMBS1000037	0.94
	HEMBS1000048	F-HEMBS1000048	0.87
30	HEMBS1000083	F-HEMBS1000083	0.48
	HEMBS1000103	F-HEMBS1000103	0.63
	HEMBS1000119	F-HEMBS1000119	0.94
	HEMBS1000136	F-HEMBS1000136	0.92
35	HEMBS1000173	F-HEMBS1000173	0.46
	HEMBS1000175	F-HEMBS1000175	0.48
	HEMBS1000198	F-HEMBS1000198	0.74
	HEMBS1000215	F-HEMBS1000215	0.61
40	HEMBS1000217	F-HEMBS1000217	0.94
	HEMBS1000226	F-HEMBS1000226	0.94
	HEMBS1000240	F-HEMBS1000240	0.40
	HEMBS1000244	F-HEMBS1000244	0.81
	HEMBS1000266	F-HEMBS1000266	0.92
45	HEMBS1000338	F-HEMBS1000338	0.33
	HEMBS1000339	F-HEMBS1000339	0.40
	HEMBS1000391	F-HEMBS1000391	0.43
	HEMBS1000438	F-HEMBS1000438	0.79
50	HEMBS1000449	F-HEMBS1000449	0.48
	HEMBS1000510	F-HEMBS1000510	0.35
	HEMBS1000550	F-HEMBS1000550	0.94
	HEMBS1000556	F-HEMBS1000556	0.89
	HEMBS1000589	F-HEMBS1000589	0.77
55	HEMBS1000591	F-HEMBS1000591	0.33

	HEMBB1000592	F-HEMBB1000592	0.77
	HEMBB1000593	F-HEMBB1000593	0.68
	HEMBB1000623	F-HEMBB1000623	0.94
5	HEMBB1000630	F-HEMBB1000630	0.59
	HEMBB1000631	F-HEMBB1000631	0.71
	HEMBB1000632	F-HEMBB1000632	0.38
	HEMBB1000671	F-HEMBB1000671	0.36
10	HEMBB1000673	F-HEMBB1000673	0.54
	HEMBB1000693	F-HEMBB1000693	0.68
	HEMBB1000705	F-HEMBB1000705	0.44
	HEMBB1000706	F-HEMBB1000706	0.45
15	HEMBB1000725	F-HEMBB1000725	0.91
	HEMBB1000763	F-HEMBB1000763	0.87
	HEMBB1000774	F-HEMBB1000774	0.80
	HEMBB1000781	F-HEMBB1000781	0.94
20	HEMBB1000789	F-HEMBB1000789	0.34
	HEMBB1000807	F-HEMBB1000807	0.94
	HEMBB1000810	F-HEMBB1000810	0.33
	HEMBB1000826	F-HEMBB1000826	0.36
25	HEMBB1000835	F-HEMBB1000835	0.81
	HEMBB1000848	F-HEMBB1000848	0.66
	HEMBB1000852	F-HEMBB1000852	0.85
	HEMBB1000870	F-HEMBB1000870	0.34
30	HEMBB1000887	F-HEMBB1000887	0.58
	HEMBB1000908	F-HEMBB1000908	0.31
	HEMBB1000927	F-HEMBB1000927	0.94
	HEMBB1000947	F-HEMBB1000947	0.33
	HEMBB1000973	F-HEMBB1000973	0.72
35	HEMBB1000975	F-HEMBB1000975	0.68
	HEMBB1000985	F-HEMBB1000985	0.62
	HEMBB1000991	F-HEMBB1000991	0.45
	HEMBB1001011	F-HEMBB1001011	0.58
40	HEMBB1001014	F-HEMBB1001014	0.86
	HEMBB1001020	F-HEMBB1001020	0.87
	HEMBB1001024	F-HEMBB1001024	0.64
	HEMBB1001056	F-HEMBB1001056	0.94
45	HEMBB1001058	F-HEMBB1001058	0.39
	HEMBB1001068	F-HEMBB1001068	0.57
	HEMBB1001096	F-HEMBB1001096	0.48
	HEMBB1001105	F-HEMBB1001105	0.45
50	HEMBB1001112	F-HEMBB1001112	0.47
	HEMBB1001117	F-HEMBB1001117	0.83
	HEMBB1001126	F-HEMBB1001126	0.76
	HEMBB1001137	F-HEMBB1001137	0.53
	HEMBB1001151	F-HEMBB1001151	0.94
55	HEMBB1001153	F-HEMBB1001153	0.77



	HEMBB1001169	F-HEMBB1001169	0.39
	HEMBB1001175	F-HEMBB1001175	0.91
	HEMBB1001182	F-HEMBB1001182	0.94
5	HEMBB1001199	F-HEMBB1001199	0.54
	HEMBB1001210	F-HEMBB1001210	0.88
	HEMBB1001234	F-HEMBB1001234	0.67
	HEMBB1001242	F-HEMBB1001242	0.33
10	HEMBB1001288	F-HEMBB1001288	0.33
	HEMBB1001289	F-HEMBB1001289	0.58
	HEMBB1001294	F-HEMBB1001294	0.86
	HEMBB1001314	F-HEMBB1001314	0.76
15	HEMBB1001331	F-HEMBB1001331	0.44
	HEMBB1001339	F-HEMBB1001339	0.40
	HEMBB1001346	F-HEMBB1001346	0.83
	HEMBB1001364	F-HEMBB1001364	0.69
20	HEMBB1001369	F-HEMBB1001369	0.47
	HEMBB1001384	F-HEMBB1001384	0.80
	HEMBB1001387	F-HEMBB1001387	0.36
	HEMBB1001394	F-HEMBB1001394	0.94
25	HEMBB1001410	F-HEMBB1001410	0.51
	HEMBB1001426	F-HEMBB1001426	0.80
	HEMBB1001429	F-HEMBB1001429	0.91
	HEMBB1001449	F-HEMBB1001449	0.31
30	HEMBB1001482	F-HEMBB1001482	0.44
	HEMBB1001531	F-HEMBB1001531	0.58
	HEMBB1001562	F-HEMBB1001562	0.65
	HEMBB1001564	F-HEMBB1001564	0.46
35	HEMBB1001585	F-HEMBB1001585	0.74
	HEMBB1001603	F-HEMBB1001603	0.81
	HEMBB1001635	F-HEMBB1001635	0.46
	HEMBB1001653	F-HEMBB1001653	0.33
	HEMBB1001665	F-HEMBB1001665	0.39
40	HEMBB1001668	F-HEMBB1001668	0.38
	HEMBB1001673	F-HEMBB1001673	0.83
	HEMBB1001684	F-HEMBB1001684	0.44
	HEMBB1001685	F-HEMBB1001685	0.90
45	HEMBB1001695	F-HEMBB1001695	0.92
	HEMBB1001707	F-HEMBB1001707	0.51
	HEMBB1001736	F-HEMBB1001736	0.94
	HEMBB1001760	F-HEMBB1001760	0.88
50	HEMBB1001785	F-HEMBB1001785	0.74
	HEMBB1001812	F-HEMBB1001812	0.33
	HEMBB1001816	F-HEMBB1001816	0.41
	HEMBB1001831	F-HEMBB1001831	0.93
	HEMBB1001834	F-HEMBB1001834	0.78
55	HEMBB1001839	F-HEMBB1001839	0.32

	HEMBB1001869	F-HEMBB1001869	0.48
	HEMBB1001872	F-HEMBB1001872	0.93
	HEMBB1001874	F-HEMBB1001874	0.31
5	HEMBB1001905	F-HEMBB1001905	0.87
	HEMBB1001906	F-HEMBB1001906	0.88
	HEMBB1001908	F-HEMBB1001908	0.69
	HEMBB1001910	F-HEMBB1001910	0.77
10	HEMBB1001915	F-HEMBB1001915	0.76
	HEMBB1001945	F-HEMBB1001945	0.64
	HEMBB1001947	F-HEMBB1001947	0.94
	HEMBB1001950	F-HEMBB1001950	0.73
15	HEMBB1001957	F-HEMBB1001957	0.64
	HEMBB1001962	F-HEMBB1001962	0.90
	HEMBB1001990	F-HEMBB1001990	0.83
	HEMBB1002044	F-HEMBB1002044	0.82
20	HEMBB1002050	F-HEMBB1002050	0.91
	HEMBB1002068	F-HEMBB1002068	0.48
	HEMBB1002134	F-HEMBB1002134	0.80
	HEMBB1002142	F-HEMBB1002142	0.39
25	HEMBB1002152	F-HEMBB1002152	0.31
	HEMBB1002193	F-HEMBB1002193	0.35
	HEMBB1002217	F-HEMBB1002217	0.49
	HEMBB1002218	F-HEMBB1002218	0.32
30	HEMBB1002249	F-HEMBB1002249	0.72
	HEMBB1002300	F-HEMBB1002300	0.75
	HEMBB1002327	F-HEMBB1002327	0.86
	HEMBB1002329	F-HEMBB1002329	0.31
	HEMBB1002340	F-HEMBB1002340	0.42
35	HEMBB1002342	F-HEMBB1002342	0.76
	HEMBB1002358	F-HEMBB1002358	0.70
	HEMBB1002359	F-HEMBB1002359	0.75
	HEMBB1002383	F-HEMBB1002383	0.78
40	HEMBB1002409	F-HEMBB1002409	0.52
	HEMBB1002415	F-HEMBB1002415	0.82
	HEMBB1002442	F-HEMBB1002442	0.31
	HEMBB1002457	F-HEMBB1002457	0.46
45	HEMBB1002489	F-HEMBB1002489	0.69
	HEMBB1002492	F-HEMBB1002492	0.68
	HEMBB1002495	F-HEMBB1002495	0.94
	HEMBB1002502	F-HEMBB1002502	0.39
50	HEMBB1002510	F-HEMBB1002510	0.94
	HEMBB1002545	F-HEMBB1002545	0.44
	HEMBB1002550	F-HEMBB1002550	0.57
	HEMBB1002600	F-HEMBB1002600	0.91
	HEMBB1002607	F-HEMBB1002607	0.83
55	HEMBB1002614	F-HEMBB1002614	0.75

	HEMBB1002684	F-HEMBB1002684	0.84
	HEMBB1002692	F-HEMBB1002692	0.62
	HEMBB1002697	F-HEMBB1002697	0.86
5	HEMBB1002705	F-HEMBB1002705	0.32
	MAMMA1000019	F-MAMMA1000019	0.48
	MAMMA1000020	F-MAMMA1000020	0.36
	MAMMA1000025	F-MAMMA1000025	0.31
10	MAMMA1000055	F-MAMMA1000055	0.39
	MAMMA1000057	F-MAMMA1000057	0.35
	MAMMA1000069	F-MAMMA1000069	0.78
	MAMMA1000084	F-MAMMA1000084	0.61
15	MAMMA1000085	F-MAMMA1000085	0.72
	MAMMA1000139	F-MAMMA1000139	0.33
	MAMMA1000143	F-MAMMA1000143	0.40
	MAMMA1000163	F-MAMMA1000163	0.94
20	MAMMA1000171	F-MAMMA1000171	0.78
	MAMMA1000173	F-MAMMA1000173	0.94
	MAMMA1000183	F-MAMMA1000183	0.77
	MAMMA1000251	F-MAMMA1000251	0.94
25	MAMMA1000257	F-MAMMA1000257	0.75
	MAMMA1000277	F-MAMMA1000277	0.94
	MAMMA1000278	F-MAMMA1000278	0.35
	MAMMA1000279	F-MAMMA1000279	0.62
30	MAMMA1000284	F-MAMMA1000284	0.35
	MAMMA1000309	F-MAMMA1000309	0.53
	MAMMA1000312	F-MAMMA1000312	0.68
	MAMMA1000313	F-MAMMA1000313	0.32
	MAMMA1000339	F-MAMMA1000339	0.35
35	MAMMA1000361	F-MAMMA1000361	0.61
	MAMMA1000372	F-MAMMA1000372	0.60
	MAMMA1000388	F-MAMMA1000388	0.93
	MAMMA1000395	F-MAMMA1000395	0.94
40	MAMMA1000410	F-MAMMA1000410	0.94
	MAMMA1000416	F-MAMMA1000416	0.89
	MAMMA1000421	F-MAMMA1000421	0.50
	MAMMA1000422	F-MAMMA1000422	0.92
45	MAMMA1000429	F-MAMMA1000429	0.92
	MAMMA1000458	F-MAMMA1000458	0.88
	MAMMA1000468	F-MAMMA1000468	0.60
	MAMMA1000472	F-MAMMA1000472	0.33
	MAMMA1000490	F-MAMMA1000490	0.34
50	MAMMA1000524	F-MAMMA1000524	0.39
	MAMMA1000567	F-MAMMA1000567	0.40
	MAMMA1000583	F-MAMMA1000583	0.45
	MAMMA1000612	F-MAMMA1000612	0.89
55	MAMMA1000623	F-MAMMA1000623	0.44

	MAMMA1000625	F-MAMMA1000625	0. 52
	MAMMA1000664	F-MAMMA1000664	0. 42
	MAMMA1000670	F-MAMMA1000670	0. 94
5	MAMMA1000672	F-MAMMA1000672	0. 44
	MAMMA1000684	F-MAMMA1000684	0. 94
	MAMMA1000713	F-MAMMA1000713	0. 88
	MAMMA1000731	F-MAMMA1000731	0. 67
10	MAMMA1000734	F-MAMMA1000734	0. 40
	MAMMA1000738	F-MAMMA1000738	0. 93
	MAMMA1000746	F-MAMMA1000746	0. 48
	MAMMA1000760	F-MAMMA1000760	0. 94
15	MAMMA1000776	F-MAMMA1000776	0. 94
	MAMMA1000824	F-MAMMA1000824	0. 81
	MAMMA1000831	F-MAMMA1000831	0. 39
	MAMMA1000841	F-MAMMA1000841	0. 41
20	MAMMA1000842	F-MAMMA1000842	0. 61
	MAMMA1000843	F-MAMMA1000843	0. 48
	MAMMA1000856	F-MAMMA1000856	0. 31
	MAMMA1000859	F-MAMMA1000859	0. 44
25	MAMMA1000865	F-MAMMA1000865	0. 94
	MAMMA1000875	F-MAMMA1000875	0. 49
	MAMMA1000897	F-MAMMA1000897	0. 94
	MAMMA1000906	F-MAMMA1000906	0. 45
30	MAMMA1000908	F-MAMMA1000908	0. 39
	MAMMA1000914	F-MAMMA1000914	0. 94
	MAMMA1000921	F-MAMMA1000921	0. 34
	MAMMA1000956	F-MAMMA1000956	0. 39
35	MAMMA1000968	F-MAMMA1000968	0. 35
	MAMMA1000979	F-MAMMA1000979	0. 68
	MAMMA1001008	F-MAMMA1001008	0. 36
	MAMMA1001021	F-MAMMA1001021	0. 48
	MAMMA1001041	F-MAMMA1001041	0. 34
40	MAMMA1001059	F-MAMMA1001059	0. 94
	MAMMA1001073	F-MAMMA1001073	0. 94
	MAMMA1001075	F-MAMMA1001075	0. 94
	MAMMA1001078	F-MAMMA1001078	0. 52
45	MAMMA1001080	F-MAMMA1001080	0. 87
	MAMMA1001091	F-MAMMA1001091	0. 53
	MAMMA1001105	F-MAMMA1001105	0. 94
	MAMMA1001110	F-MAMMA1001110	0. 78
50	MAMMA1001126	F-MAMMA1001126	0. 85
	MAMMA1001139	F-MAMMA1001139	0. 38
	MAMMA1001143	F-MAMMA1001143	0. 79
	MAMMA1001154	F-MAMMA1001154	0. 31
	MAMMA1001181	F-MAMMA1001181	0. 69
55	MAMMA1001198	F-MAMMA1001198	0. 88

	MAMMA1001202	F-MAMMA1001202	0.38
	MAMMA1001215	F-MAMMA1001215	0.94
5	MAMMA1001222	F-MAMMA1001222	0.89
	MAMMA1001244	F-MAMMA1001244	0.87
	MAMMA1001259	F-MAMMA1001259	0.91
	MAMMA1001260	F-MAMMA1001260	0.75
10	MAMMA1001271	F-MAMMA1001271	0.77
	MAMMA1001292	F-MAMMA1001292	0.94
	MAMMA1001296	F-MAMMA1001296	0.75
	MAMMA1001305	F-MAMMA1001305	0.66
15	MAMMA1001343	F-MAMMA1001343	0.38
	MAMMA1001346	F-MAMMA1001346	0.81
	MAMMA1001388	F-MAMMA1001388	0.94
	MAMMA1001411	F-MAMMA1001411	0.42
	MAMMA1001419	F-MAMMA1001419	0.45
20	MAMMA1001465	F-MAMMA1001465	0.94
	MAMMA1001476	F-MAMMA1001476	0.90
	MAMMA1001487	F-MAMMA1001487	0.78
	MAMMA1001510	F-MAMMA1001510	0.82
25	MAMMA1001522	F-MAMMA1001522	0.63
	MAMMA1001551	F-MAMMA1001551	0.81
	MAMMA1001576	F-MAMMA1001576	0.94
	MAMMA1001600	F-MAMMA1001600	0.72
30	MAMMA1001604	F-MAMMA1001604	0.87
	MAMMA1001620	F-MAMMA1001620	0.43
	MAMMA1001627	F-MAMMA1001627	0.39
	MAMMA1001630	F-MAMMA1001630	0.46
35	MAMMA1001633	F-MAMMA1001633	0.58
	MAMMA1001635	F-MAMMA1001635	0.89
	MAMMA1001649	F-MAMMA1001649	0.62
	MAMMA1001654	F-MAMMA1001654	0.94
40	MAMMA1001692	F-MAMMA1001692	0.83
	MAMMA1001730	F-MAMMA1001730	0.48
	MAMMA1001735	F-MAMMA1001735	0.94
	MAMMA1001743	F-MAMMA1001743	0.94
	MAMMA1001744	F-MAMMA1001744	0.33
45	MAMMA1001751	F-MAMMA1001751	0.94
	MAMMA1001754	F-MAMMA1001754	0.47
	MAMMA1001757	F-MAMMA1001757	0.38
	MAMMA1001764	F-MAMMA1001764	0.57
50	MAMMA1001768	F-MAMMA1001768	0.85
	MAMMA1001771	F-MAMMA1001771	0.39
	MAMMA1001783	F-MAMMA1001783	0.61
	MAMMA1001785	F-MAMMA1001785	0.41
55	MAMMA1001790	F-MAMMA1001790	0.69
	MAMMA1001812	F-MAMMA1001812	0.32

	MAMMA1001817	F-MAMMA1001817	0.55
	MAMMA1001824	F-MAMMA1001824	0.57
5	MAMMA1001837	F-MAMMA1001837	0.35
	MAMMA1001848	F-MAMMA1001848	0.38
	MAMMA1001851	F-MAMMA1001851	0.46
	MAMMA1001858	F-MAMMA1001858	0.53
10	MAMMA1001864	F-MAMMA1001864	0.32
	MAMMA1001868	F-MAMMA1001868	0.48
	MAMMA1001874	F-MAMMA1001874	0.94
	MAMMA1001956	F-MAMMA1001956	0.47
	MAMMA1001969	F-MAMMA1001969	0.31
15	MAMMA1001970	F-MAMMA1001970	0.34
	MAMMA1002009	F-MAMMA1002009	0.45
	MAMMA1002011	F-MAMMA1002011	0.94
	MAMMA1002033	F-MAMMA1002033	0.33
20	MAMMA1002041	F-MAMMA1002041	0.86
	MAMMA1002042	F-MAMMA1002042	0.88
	MAMMA1002047	F-MAMMA1002047	0.41
	MAMMA1002068	F-MAMMA1002068	0.38
25	MAMMA1002143	F-MAMMA1002143	0.91
	MAMMA1002153	F-MAMMA1002153	0.94
	MAMMA1002156	F-MAMMA1002156	0.73
	MAMMA1002170	F-MAMMA1002170	0.43
30	MAMMA1002174	F-MAMMA1002174	0.69
	MAMMA1002198	F-MAMMA1002198	0.65
	MAMMA1002209	F-MAMMA1002209	0.80
	MAMMA1002219	F-MAMMA1002219	0.85
35	MAMMA1002236	F-MAMMA1002236	0.55
	MAMMA1002243	F-MAMMA1002243	0.50
	MAMMA1002268	F-MAMMA1002268	0.43
	MAMMA1002269	F-MAMMA1002269	0.33
40	MAMMA1002292	F-MAMMA1002292	0.76
	MAMMA1002294	F-MAMMA1002294	0.94
	MAMMA1002297	F-MAMMA1002297	0.91
	MAMMA1002308	F-MAMMA1002308	0.68
	MAMMA1002312	F-MAMMA1002312	0.77
45	MAMMA1002317	F-MAMMA1002317	0.46
	MAMMA1002319	F-MAMMA1002319	0.31
	MAMMA1002329	F-MAMMA1002329	0.34
	MAMMA1002333	F-MAMMA1002333	0.65
50	MAMMA1002351	F-MAMMA1002351	0.89
	MAMMA1002353	F-MAMMA1002353	0.94
	MAMMA1002355	F-MAMMA1002355	0.55
	MAMMA1002356	F-MAMMA1002356	0.32
55	MAMMA1002362	F-MAMMA1002362	0.83
	MAMMA1002380	F-MAMMA1002380	0.94

	MAMMA1002384	F-MAMMA1002384	0. 42
	MAMMA1002385	F-MAMMA1002385	0. 82
5	MAMMA1002413	F-MAMMA1002413	0. 94
	MAMMA1002427	F-MAMMA1002427	0. 40
	MAMMA1002434	F-MAMMA1002434	0. 74
	MAMMA1002454	F-MAMMA1002454	0. 82
10	MAMMA1002461	F-MAMMA1002461	0. 49
	MAMMA1002470	F-MAMMA1002470	0. 89
	MAMMA1002485	F-MAMMA1002485	0. 55
	MAMMA1002524	F-MAMMA1002524	0. 33
15	MAMMA1002530	F-MAMMA1002530	0. 75
	MAMMA1002554	F-MAMMA1002554	0. 41
	MAMMA1002585	F-MAMMA1002585	0. 31
	MAMMA1002590	F-MAMMA1002590	0. 72
	MAMMA1002598	F-MAMMA1002598	0. 76
20	MAMMA1002617	F-MAMMA1002617	0. 49
	MAMMA1002619	F-MAMMA1002619	0. 88
	MAMMA1002637	F-MAMMA1002637	0. 94
	MAMMA1002650	F-MAMMA1002650	0. 54
25	MAMMA1002655	F-MAMMA1002655	0. 39
	MAMMA1002665	F-MAMMA1002665	0. 33
	MAMMA1002671	F-MAMMA1002671	0. 94
	MAMMA1002673	F-MAMMA1002673	0. 70
30	MAMMA1002684	F-MAMMA1002684	0. 94
	MAMMA1002685	F-MAMMA1002685	0. 88
	MAMMA1002699	F-MAMMA1002699	0. 94
	MAMMA1002711	F-MAMMA1002711	0. 39
35	MAMMA1002769	F-MAMMA1002769	0. 88
	MAMMA1002775	F-MAMMA1002775	0. 81
	MAMMA1002782	F-MAMMA1002782	0. 87
	MAMMA1002796	F-MAMMA1002796	0. 40
40	MAMMA1002807	F-MAMMA1002807	0. 64
	MAMMA1002842	F-MAMMA1002842	0. 94
	MAMMA1002843	F-MAMMA1002843	0. 32
	MAMMA1002868	F-MAMMA1002868	0. 54
	MAMMA1002869	F-MAMMA1002869	0. 94
45	MAMMA1002881	F-MAMMA1002881	0. 94
	MAMMA1002886	F-MAMMA1002886	0. 61
	MAMMA1002890	F-MAMMA1002890	0. 94
	MAMMA1002895	F-MAMMA1002895	0. 94
50	MAMMA1002937	F-MAMMA1002937	0. 91
	MAMMA1002938	F-MAMMA1002938	0. 78
	MAMMA1002947	F-MAMMA1002947	0. 94
	MAMMA1002964	F-MAMMA1002964	0. 34
55	MAMMA1002987	F-MAMMA1002987	0. 74
	MAMMA1003011	F-MAMMA1003011	0. 90

	MAMMA1003013	F-MAMMA1003013	0.36
	MAMMA1003015	F-MAMMA1003015	0.92
5	MAMMA1003035	F-MAMMA1003035	0.94
	MAMMA1003044	F-MAMMA1003044	0.61
	MAMMA1003047	F-MAMMA1003047	0.94
	MAMMA1003049	F-MAMMA1003049	0.31
10	MAMMA1003056	F-MAMMA1003056	0.75
	MAMMA1003057	F-MAMMA1003057	0.33
	MAMMA1003066	F-MAMMA1003066	0.38
	MAMMA1003099	F-MAMMA1003099	0.79
15	MAMMA1003104	F-MAMMA1003104	0.44
	MAMMA1003113	F-MAMMA1003113	0.90
	MAMMA1003127	F-MAMMA1003127	0.53
	MAMMA1003135	F-MAMMA1003135	0.94
	MAMMA1003146	F-MAMMA1003146	0.88
20	MAMMA1003150	F-MAMMA1003150	0.73
	MAMMA1003166	F-MAMMA1003166	0.94
	NT2RM1000001	F-NT2RM1000001	0.66
	NT2RM1000018	F-NT2RM1000018	0.55
25	NT2RM1000032	F-NT2RM1000032	0.74
	NT2RM1000035	F-NT2RM1000035	0.52
	NT2RM1000037	F-NT2RM1000037	0.94
	NT2RM1000039	F-NT2RM1000039	0.77
30	NT2RM1000055	F-NT2RM1000055	0.89
	NT2RM1000059	F-NT2RM1000059	0.41
	NT2RM1000062	F-NT2RM1000062	0.65
	NT2RM1000080	F-NT2RM1000080	0.61
35	NT2RM1000086	F-NT2RM1000086	0.94
	NT2RM1000092	F-NT2RM1000092	0.94
	NT2RM1000118	F-NT2RM1000118	0.76
	NT2RM1000119	F-NT2RM1000119	0.41
40	NT2RM1000127	F-NT2RM1000127	0.94
	NT2RM1000131	F-NT2RM1000131	0.90
	NT2RM1000132	F-NT2RM1000132	0.94
	NT2RM1000153	F-NT2RM1000153	0.90
	NT2RM1000186	F-NT2RM1000186	0.78
45	NT2RM1000187	F-NT2RM1000187	0.54
	NT2RM1000199	F-NT2RM1000199	0.33
	NT2RM1000242	F-NT2RM1000242	0.78
	NT2RM1000244	F-NT2RM1000244	0.31
50	NT2RM1000252	F-NT2RM1000252	0.76
	NT2RM1000256	F-NT2RM1000256	0.94
	NT2RM1000257	F-NT2RM1000257	0.89
	NT2RM1000260	F-NT2RM1000260	0.42
55	NT2RM1000271	F-NT2RM1000271	0.74
	NT2RM1000272	F-NT2RM1000272	0.78



	NT2RM1000280	F-NT2RM1000280	0.94
	NT2RM1000300	F-NT2RM1000300	0.47
	NT2RM1000314	F-NT2RM1000314	0.61
5	NT2RM1000318	F-NT2RM1000318	0.94
	NT2RM1000341	F-NT2RM1000341	0.70
	NT2RM1000354	F-NT2RM1000354	0.82
	NT2RM1000355	F-NT2RM1000355	0.94
10	NT2RM1000365	F-NT2RM1000365	0.31
	NT2RM1000377	F-NT2RM1000377	0.87
	NT2RM1000388	F-NT2RM1000388	0.94
	NT2RM1000394	F-NT2RM1000394	0.58
15	NT2RM1000399	F-NT2RM1000399	0.86
	NT2RM1000421	F-NT2RM1000421	0.39
	NT2RM1000430	F-NT2RM1000430	0.94
	NT2RM1000499	F-NT2RM1000499	0.44
20	NT2RM1000539	F-NT2RM1000539	0.87
	NT2RM1000553	F-NT2RM1000553	0.88
	NT2RM1000555	F-NT2RM1000555	0.37
	NT2RM1000563	F-NT2RM1000563	0.63
25	NT2RM1000623	F-NT2RM1000623	0.34
	NT2RM1000648	F-NT2RM1000648	0.94
	NT2RM1000661	F-NT2RM1000661	0.61
	NT2RM1000666	F-NT2RM1000666	0.94
30	NT2RM1000669	F-NT2RM1000669	0.94
	NT2RM1000672	F-NT2RM1000672	0.53
	NT2RM1000691	F-NT2RM1000691	0.38
	NT2RM1000699	F-NT2RM1000699	0.32
35	NT2RM1000702	F-NT2RM1000702	0.74
	NT2RM1000725	F-NT2RM1000725	0.75
	NT2RM1000741	F-NT2RM1000741	0.94
	NT2RM1000742	F-NT2RM1000742	0.54
40	NT2RM1000746	F-NT2RM1000746	0.94
	NT2RM1000770	F-NT2RM1000770	0.48
	NT2RM1000772	F-NT2RM1000772	0.39
	NT2RM1000780	F-NT2RM1000780	0.66
45	NT2RM1000781	F-NT2RM1000781	0.49
	NT2RM1000800	F-NT2RM1000800	0.72
	NT2RM1000802	F-NT2RM1000802	0.89
	NT2RM1000811	F-NT2RM1000811	0.53
	NT2RM1000826	F-NT2RM1000826	0.39
50	NT2RM1000829	F-NT2RM1000829	0.63
	NT2RM1000833	F-NT2RM1000833	0.94
	NT2RM1000850	F-NT2RM1000850	0.89
	NT2RM1000852	F-NT2RM1000852	0.88
55	NT2RM1000857	F-NT2RM1000857	0.58
	NT2RM1000867	F-NT2RM1000867	0.90

	NT2RM1000874	F-NT2RM1000874	0.89
	NT2RM1000882	F-NT2RM1000882	0.63
5	NT2RM1000883	F-NT2RM1000883	0.71
	NT2RM1000885	F-NT2RM1000885	0.89
	NT2RM1000894	F-NT2RM1000894	0.57
	NT2RM1000898	F-NT2RM1000898	0.87
10	NT2RM1000905	F-NT2RM1000905	0.94
	NT2RM1000924	F-NT2RM1000924	0.88
	NT2RM1000927	F-NT2RM1000927	0.70
	NT2RM1000962	F-NT2RM1000962	0.84
	NT2RM1000978	F-NT2RM1000978	0.39
15	NT2RM1001003	F-NT2RM1001003	0.81
	NT2RM1001008	F-NT2RM1001008	0.94
	NT2RM1001043	F-NT2RM1001043	0.94
	NT2RM1001044	F-NT2RM1001044	0.94
20	NT2RM1001059	F-NT2RM1001059	0.94
	NT2RM1001066	F-NT2RM1001066	0.94
	NT2RM1001072	F-NT2RM1001072	0.77
	NT2RM1001074	F-NT2RM1001074	0.94
25	NT2RM1001082	F-NT2RM1001082	0.94
	NT2RM1001085	F-NT2RM1001085	0.83
	NT2RM1001092	F-NT2RM1001092	0.77
	NT2RM1001102	F-NT2RM1001102	0.59
30	NT2RM1001105	F-NT2RM1001105	0.94
	NT2RM1001112	F-NT2RM1001112	0.50
	NT2RM1001115	F-NT2RM1001115	0.32
	NT2RM1001139	F-NT2RM1001139	0.77
35	NT2RM2000006	F-NT2RM2000006	0.34
	NT2RM2000013	F-NT2RM2000013	0.70
	NT2RM2000030	F-NT2RM2000030	0.89
	NT2RM2000032	F-NT2RM2000032	0.36
40	NT2RM2000042	F-NT2RM2000042	0.32
	NT2RM2000092	F-NT2RM2000092	0.55
	NT2RM2000093	F-NT2RM2000093	0.33
	NT2RM2000101	F-NT2RM2000101	0.77
	NT2RM2000124	F-NT2RM2000124	0.94
45	NT2RM2000191	F-NT2RM2000191	0.80
	NT2RM2000192	F-NT2RM2000192	0.93
	NT2RM2000239	F-NT2RM2000239	0.68
	NNNNNNNNNNNN	F-NNNNNNNNNNNN	0.94
50	NT2RM2000250	F-NT2RM2000250	0.94
	NT2RM2000259	F-NT2RM2000259	0.68
	NT2RM2000260	F-NT2RM2000260	0.37
	NT2RM2000287	F-NT2RM2000287	0.46
55	NT2RM2000322	F-NT2RM2000322	0.83
	NT2RM2000359	F-NT2RM2000359	0.94

	NT2RM2000363	F-NT2RM2000363	0.91
	NT2RM2000368	F-NT2RM2000368	0.34
5	NT2RM2000371	F-NT2RM2000371	0.94
	NT2RM2000374	F-NT2RM2000374	0.65
	NT2RM2000395	F-NT2RM2000395	0.33
	NT2RM2000402	F-NT2RM2000402	0.80
10	NT2RM2000407	F-NT2RM2000407	0.88
	NT2RM2000420	F-NT2RM2000420	0.92
	NT2RM2000422	F-NT2RM2000422	0.49
	NT2RM2000452	F-NT2RM2000452	0.93
15	NT2RM2000469	F-NT2RM2000469	0.39
	NT2RM2000490	F-NT2RM2000490	0.90
	NT2RM2000502	F-NT2RM2000502	0.64
	NT2RM2000504	F-NT2RM2000504	0.71
	NT2RM2000522	F-NT2RM2000522	0.91
20	NT2RM2000540	F-NT2RM2000540	0.87
	NT2RM2000556	F-NT2RM2000556	0.91
	NT2RM2000566	F-NT2RM2000566	0.39
	NT2RM2000567	F-NT2RM2000567	0.44
25	NT2RM2000569	F-NT2RM2000569	0.49
	NT2RM2000577	F-NT2RM2000577	0.45
	NT2RM2000581	F-NT2RM2000581	0.72
	NT2RM2000588	F-NT2RM2000588	0.31
30	NT2RM2000594	F-NT2RM2000594	0.79
	NT2RM2000599	F-NT2RM2000599	0.80
	NT2RM2000612	F-NT2RM2000612	0.75
	NT2RM2000623	F-NT2RM2000623	0.72
35	NT2RM2000624	F-NT2RM2000624	0.94
	NT2RM2000635	F-NT2RM2000635	0.73
	NT2RM2000636	F-NT2RM2000636	0.45
	NT2RM2000639	F-NT2RM2000639	0.43
40	NT2RM2000649	F-NT2RM2000649	0.74
	NT2RM2000669	F-NT2RM2000669	0.94
	NT2RM2000691	F-NT2RM2000691	0.84
	NT2RM2000714	F-NT2RM2000714	0.92
	NT2RM2000718	F-NT2RM2000718	0.52
45	NT2RM2000735	F-NT2RM2000735	0.33
	NT2RM2000740	F-NT2RM2000740	0.94
	NT2RM2000795	F-NT2RM2000795	0.44
	NT2RM2000821	F-NT2RM2000821	0.33
50	NT2RM2000837	F-NT2RM2000837	0.57
	NT2RM2000951	F-NT2RM2000951	0.32
	NT2RM2000952	F-NT2RM2000952	0.50
	NT2RM2000984	F-NT2RM2000984	0.76
55	NT2RM2001004	F-NT2RM2001004	0.55
	NT2RM2001035	F-NT2RM2001035	0.82

	NT2RM2001065	F-NT2RM2001065	0.65
	NT2RM2001100	F-NT2RM2001100	0.89
5	NT2RM2001105	F-NT2RM2001105	0.94
	NT2RM2001131	F-NT2RM2001131	0.94
	NT2RM2001141	F-NT2RM2001141	0.74
	NT2RM2001152	F-NT2RM2001152	0.33
10	NT2RM2001177	F-NT2RM2001177	0.32
	NT2RM2001194	F-NT2RM2001194	0.83
	NT2RM2001196	F-NT2RM2001196	0.42
	NT2RM2001201	F-NT2RM2001201	0.90
15	NT2RM2001221	F-NT2RM2001221	0.39
	NT2RM2001238	F-NT2RM2001238	0.94
	NT2RM2001243	F-NT2RM2001243	0.44
	NT2RM2001247	F-NT2RM2001247	0.42
	NT2RM2001256	F-NT2RM2001256	0.60
20	NT2RM2001291	F-NT2RM2001291	0.39
	NT2RM2001306	F-NT2RM2001306	0.81
	NT2RM2001312	F-NT2RM2001312	0.64
	NT2RM2001319	F-NT2RM2001319	0.53
25	NT2RM2001324	F-NT2RM2001324	0.94
	NT2RM2001345	F-NT2RM2001345	0.94
	NT2RM2001360	F-NT2RM2001360	0.69
	NT2RM2001370	F-NT2RM2001370	0.44
30	NT2RM2001393	F-NT2RM2001393	0.94
	NT2RM2001420	F-NT2RM2001420	0.46
	NT2RM2001424	F-NT2RM2001424	0.94
	NT2RM2001499	F-NT2RM2001499	0.63
35	NT2RM2001504	F-NT2RM2001504	0.94
	NT2RM2001524	F-NT2RM2001524	0.76
	NT2RM2001544	F-NT2RM2001544	0.59
	NT2RM2001547	F-NT2RM2001547	0.48
40	NT2RM2001575	F-NT2RM2001575	0.91
	NT2RM2001582	F-NT2RM2001582	0.34
	NT2RM2001588	F-NT2RM2001588	0.48
	NT2RM2001592	F-NT2RM2001592	0.64
45	NT2RM2001605	F-NT2RM2001605	0.47
	NT2RM2001613	F-NT2RM2001613	0.61
	NT2RM2001632	F-NT2RM2001632	0.31
	NT2RM2001635	F-NT2RM2001635	0.39
50	NT2RM2001637	F-NT2RM2001637	0.71
	NT2RM2001641	F-NT2RM2001641	0.73
	NT2RM2001648	F-NT2RM2001648	0.44
	NT2RM2001652	F-NT2RM2001652	0.40
	NT2RM2001659	F-NT2RM2001659	0.35
55	NT2RM2001664	F-NT2RM2001664	0.53
	NT2RM2001668	F-NT2RM2001668	0.64

	NT2RM2001670	F-NT2RM2001670	0.59
	NT2RM2001671	F-NT2RM2001671	0.41
	NT2RM2001675	F-NT2RM2001675	0.51
5	NT2RM2001681	F-NT2RM2001681	0.33
	NT2RM2001688	F-NT2RM2001688	0.74
	NT2RM2001695	F-NT2RM2001695	0.31
	NT2RM2001696	F-NT2RM2001696	0.94
10	NT2RM2001698	F-NT2RM2001698	0.69
	NT2RM2001699	F-NT2RM2001699	0.85
	NT2RM2001700	F-NT2RM2001700	0.71
	NT2RM2001706	F-NT2RM2001706	0.38
15	NT2RM2001716	F-NT2RM2001716	0.78
	NT2RM2001718	F-NT2RM2001718	0.81
	NT2RM2001723	F-NT2RM2001723	0.83
	NT2RM2001727	F-NT2RM2001727	0.87
20	NT2RM2001730	F-NT2RM2001730	0.94
	NT2RM2001743	F-NT2RM2001743	0.94
	NT2RM2001753	F-NT2RM2001753	0.75
	NT2RM2001760	F-NT2RM2001760	0.75
25	NT2RM2001768	F-NT2RM2001768	0.71
	NT2RM2001771	F-NT2RM2001771	0.33
	NT2RM2001782	F-NT2RM2001782	0.34
	NT2RM2001784	F-NT2RM2001784	0.45
30	NT2RM2001785	F-NT2RM2001785	0.94
	NT2RM2001797	F-NT2RM2001797	0.74
	NT2RM2001800	F-NT2RM2001800	0.90
	NT2RM2001803	F-NT2RM2001803	0.36
35	NT2RM2001805	F-NT2RM2001805	0.81
	NT2RM2001813	F-NT2RM2001813	0.94
	NT2RM2001823	F-NT2RM2001823	0.94
	NT2RM2001839	F-NT2RM2001839	0.39
40	NT2RM2001840	F-NT2RM2001840	0.94
	NT2RM2001855	F-NT2RM2001855	0.92
	NT2RM2001867	F-NT2RM2001867	0.82
	NT2RM2001879	F-NT2RM2001879	0.86
45	NT2RM2001886	F-NT2RM2001886	0.91
	NT2RM2001896	F-NT2RM2001896	0.94
	NT2RM2001903	F-NT2RM2001903	0.61
	NT2RM2001930	F-NT2RM2001930	0.94
	NT2RM2001935	F-NT2RM2001935	0.77
50	NT2RM2001936	F-NT2RM2001936	0.94
	NT2RM2001950	F-NT2RM2001950	0.34
	NT2RM2001982	F-NT2RM2001982	0.48
	NT2RM2001983	F-NT2RM2001983	0.59
55	NT2RM2001989	F-NT2RM2001989	0.94
	NT2RM2001997	F-NT2RM2001997	0.90

	NT2RM2001998	F-NT2RM2001998	0. 72
	NT2RM2002004	F-NT2RM2002004	0. 46
5	NT2RM2002014	F-NT2RM2002014	0. 32
	NT2RM2002030	F-NT2RM2002030	0. 54
	NT2RM2002049	F-NT2RM2002049	0. 59
	NT2RM2002055	F-NT2RM2002055	0. 94
10	NT2RM2002088	F-NT2RM2002088	0. 47
	NT2RM2002091	F-NT2RM2002091	0. 78
	NT2RM2002100	F-NT2RM2002100	0. 87
	NT2RM2002109	F-NT2RM2002109	0. 86
15	NT2RM2002128	F-NT2RM2002128	0. 42
	NT2RM2002142	F-NT2RM2002142	0. 94
	NT2RM2002145	F-NT2RM2002145	0. 94
	NT2RM2002178	F-NT2RM2002178	0. 44
	NT2RM2002580	F-NT2RM2002580	0. 94
20	NT2RM4000024	F-NT2RM4000024	0. 76
	NT2RM4000027	F-NT2RM4000027	0. 40
	NT2RM4000030	F-NT2RM4000030	0. 66
	NT2RM4000061	F-NT2RM4000061	0. 33
25	NT2RM4000104	F-NT2RM4000104	0. 93
	NT2RM4000139	F-NT2RM4000139	0. 87
	NT2RM4000155	F-NT2RM4000155	0. 51
	NT2RM4000156	F-NT2RM4000156	0. 39
30	NT2RM4000167	F-NT2RM4000167	0. 50
	NT2RM4000169	F-NT2RM4000169	0. 44
	NT2RM4000191	F-NT2RM4000191	0. 94
	NT2RM4000197	F-NT2RM4000197	0. 41
35	NT2RM4000199	F-NT2RM4000199	0. 76
	NT2RM4000202	F-NT2RM4000202	0. 47
	NT2RM4000210	F-NT2RM4000210	0. 44
	NT2RM4000215	F-NT2RM4000215	0. 94
40	NT2RM4000229	F-NT2RM4000229	0. 93
	NT2RM4000233	F-NT2RM4000233	0. 74
	NT2RM4000251	F-NT2RM4000251	0. 48
	NT2RM4000290	F-NT2RM4000290	0. 94
	NT2RM4000324	F-NT2RM4000324	0. 32
45	NT2RM4000344	F-NT2RM4000344	0. 94
	NT2RM4000349	F-NT2RM4000349	0. 78
	NT2RM4000354	F-NT2RM4000354	0. 36
	NT2RM4000356	F-NT2RM4000356	0. 58
50	NT2RM4000386	F-NT2RM4000386	0. 90
	NT2RM4000395	F-NT2RM4000395	0. 47
	NT2RM4000421	F-NT2RM4000421	0. 46
	NT2RM4000433	F-NT2RM4000433	0. 48
55	NT2RM4000457	F-NT2RM4000457	0. 75
	NT2RM4000471	F-NT2RM4000471	0. 92

	NT2RM4000486	F-NT2RM4000486	0.55
	NT2RM4000496	F-NT2RM4000496	0.62
5	NT2RM4000511	F-NT2RM4000511	0.74
	NT2RM4000514	F-NT2RM4000514	0.72
	NT2RM4000515	F-NT2RM4000515	0.66
	NT2RM4000520	F-NT2RM4000520	0.69
10	NT2RM4000531	F-NT2RM4000531	0.62
	NT2RM4000534	F-NT2RM4000534	0.94
	NT2RM4000585	F-NT2RM4000585	0.52
	NT2RM4000590	F-NT2RM4000590	0.94
15	NT2RM4000595	F-NT2RM4000595	0.44
	NT2RM4000603	F-NT2RM4000603	0.94
	NT2RM4000611	F-NT2RM4000611	0.46
	NT2RM4000616	F-NT2RM4000616	0.94
	NT2RM4000674	F-NT2RM4000674	0.80
20	NT2RM4000689	F-NT2RM4000689	0.58
	NT2RM4000698	F-NT2RM4000698	0.71
	NT2RM4000700	F-NT2RM4000700	0.59
	NT2RM4000712	F-NT2RM4000712	0.94
25	NT2RM4000717	F-NT2RM4000717	0.69
	NT2RM4000733	F-NT2RM4000733	0.94
	NT2RM4000734	F-NT2RM4000734	0.42
	NT2RM4000741	F-NT2RM4000741	0.83
30	NT2RM4000751	F-NT2RM4000751	0.91
	NT2RM4000764	F-NT2RM4000764	0.35
	NT2RM4000778	F-NT2RM4000778	0.90
	NT2RM4000787	F-NT2RM4000787	0.40
35	NT2RM4000790	F-NT2RM4000790	0.62
	NT2RM4000795	F-NT2RM4000795	0.94
	NT2RM4000796	F-NT2RM4000796	0.93
	NT2RM4000798	F-NT2RM4000798	0.61
40	NT2RM4000813	F-NT2RM4000813	0.58
	NT2RM4000820	F-NT2RM4000820	0.39
	NT2RM4000833	F-NT2RM4000833	0.80
	NT2RM4000848	F-NT2RM4000848	0.73
	NT2RM4000852	F-NT2RM4000852	0.74
45	NT2RM4000887	F-NT2RM4000887	0.42
	NT2RM4000895	F-NT2RM4000895	0.47
	NT2RM4000950	F-NT2RM4000950	0.53
	NT2RM4000971	F-NT2RM4000971	0.73
50	NT2RM4000996	F-NT2RM4000996	0.42
	NT2RM4001002	F-NT2RM4001002	0.57
	NT2RM4001032	F-NT2RM4001032	0.94
	NT2RM4001047	F-NT2RM4001047	0.76
55	NT2RM4001054	F-NT2RM4001054	0.91
	NT2RM4001084	F-NT2RM4001084	0.94

	NT2RM4001092	F-NT2RM4001092	0.94
	NT2RM4001116	F-NT2RM4001116	0.36
	NT2RM4001140	F-NT2RM4001140	0.82
5	NT2RM4001151	F-NT2RM4001151	0.94
	NT2RM4001155	F-NT2RM4001155	0.94
	NT2RM4001187	F-NT2RM4001187	0.61
	NT2RM4001191	F-NT2RM4001191	0.77
10	NT2RM4001200	F-NT2RM4001200	0.72
	NT2RM4001203	F-NT2RM4001203	0.60
	NT2RM4001204	F-NT2RM4001204	0.89
	NT2RM4001217	F-NT2RM4001217	0.93
15	NT2RM4001256	F-NT2RM4001256	0.89
	NT2RM4001258	F-NT2RM4001258	0.94
	NT2RM4001309	F-NT2RM4001309	0.88
	NT2RM4001316	F-NT2RM4001316	0.38
20	NT2RM4001320	F-NT2RM4001320	0.33
	NT2RM4001340	F-NT2RM4001340	0.83
	NT2RM4001344	F-NT2RM4001344	0.94
	NT2RM4001347	F-NT2RM4001347	0.88
25	NT2RM4001371	F-NT2RM4001371	0.61
	NT2RM4001382	F-NT2RM4001382	0.93
	NT2RM4001384	F-NT2RM4001384	0.32
	NT2RM4001410	F-NT2RM4001410	0.94
30	NT2RM4001411	F-NT2RM4001411	0.47
	NT2RM4001412	F-NT2RM4001412	0.85
	NT2RM4001444	F-NT2RM4001444	0.94
	NT2RM4001454	F-NT2RM4001454	0.72
35	NT2RM4001455	F-NT2RM4001455	0.39
	NT2RM4001483	F-NT2RM4001483	0.76
	NT2RM4001489	F-NT2RM4001489	0.94
	NT2RM4001522	F-NT2RM4001522	0.88
	NT2RM4001565	F-NT2RM4001565	0.78
40	NT2RM4001566	F-NT2RM4001566	0.87
	NT2RM4001569	F-NT2RM4001569	0.70
	NT2RM4001582	F-NT2RM4001582	0.76
	NT2RM4001592	F-NT2RM4001592	0.31
45	NT2RM4001594	F-NT2RM4001594	0.86
	NT2RM4001597	F-NT2RM4001597	0.91
	NT2RM4001611	F-NT2RM4001611	0.91
	NT2RM4001629	F-NT2RM4001629	0.72
50	NT2RM4001650	F-NT2RM4001650	0.37
	NT2RM4001662	F-NT2RM4001662	0.70
	NT2RM4001666	F-NT2RM4001666	0.37
	NT2RM4001682	F-NT2RM4001682	0.91
	NT2RM4001710	F-NT2RM4001710	0.45
55	NT2RM4001714	F-NT2RM4001714	0.94



	NT2RM4001715	F-NT2RM4001715	0.33
	NT2RM4001731	F-NT2RM4001731	0.94
	NT2RM4001741	F-NT2RM4001741	0.87
5	NT2RM4001746	F-NT2RM4001746	0.81
	NT2RM4001758	F-NT2RM4001758	0.59
	NT2RM4001783	F-NT2RM4001783	0.68
	NT2RM4001813	F-NT2RM4001813	0.39
10	NT2RM4001819	F-NT2RM4001819	0.43
	NT2RM4001823	F-NT2RM4001823	0.94
	NT2RM4001828	F-NT2RM4001828	0.83
	NT2RM4001836	F-NT2RM4001836	0.61
15	NT2RM4001841	F-NT2RM4001841	0.37
	NT2RM4001842	F-NT2RM4001842	0.68
	NT2RM4001865	F-NT2RM4001865	0.91
	NT2RM4001876	F-NT2RM4001876	0.88
20	NT2RM4001880	F-NT2RM4001880	0.43
	NT2RM4001905	F-NT2RM4001905	0.94
	NT2RM4001922	F-NT2RM4001922	0.48
	NT2RM4001938	F-NT2RM4001938	0.67
25	NT2RM4001940	F-NT2RM4001940	0.92
	NT2RM4001965	F-NT2RM4001965	0.94
	NT2RM4001969	F-NT2RM4001969	0.88
	NT2RM4001979	F-NT2RM4001979	0.42
30	NT2RM4001987	F-NT2RM4001987	0.86
	NT2RM4002013	F-NT2RM4002013	0.94
	NT2RM4002018	F-NT2RM4002018	0.92
	NT2RM4002034	F-NT2RM4002034	0.43
35	NT2RM4002044	F-NT2RM4002044	0.42
	NT2RM4002054	F-NT2RM4002054	0.88
	NT2RM4002055	F-NT2RM4002055	0.32
	NT2RM4002062	F-NT2RM4002062	0.87
40	NT2RM4002063	F-NT2RM4002063	0.49
	NT2RM4002066	F-NT2RM4002066	0.39
	NT2RM4002073	F-NT2RM4002073	0.78
	NT2RM4002075	F-NT2RM4002075	0.87
	NT2RM4002093	F-NT2RM4002093	0.82
45	NT2RM4002109	F-NT2RM4002109	0.52
	NT2RM4002128	F-NT2RM4002128	0.68
	NT2RM4002140	F-NT2RM4002140	0.94
	NT2RM4002145	F-NT2RM4002145	0.94
50	NT2RM4002146	F-NT2RM4002146	0.89
	NT2RM4002161	F-NT2RM4002161	0.49
	NT2RM4002174	F-NT2RM4002174	0.36
	NT2RM4002189	F-NT2RM4002189	0.34
	NT2RM4002194	F-NT2RM4002194	0.73
55	NT2RM4002205	F-NT2RM4002205	0.94

	NT2RM4002213	F-NT2RM4002213	0.52
	NT2RM4002226	F-NT2RM4002226	0.48
5	NT2RM4002251	F-NT2RM4002251	0.94
	NT2RM4002256	F-NT2RM4002256	0.93
	NT2RM4002266	F-NT2RM4002266	0.73
	NT2RM4002294	F-NT2RM4002294	0.86
10	NT2RM4002301	F-NT2RM4002301	0.40
	NT2RM4002323	F-NT2RM4002323	0.81
	NT2RM4002339	F-NT2RM4002339	0.32
	NT2RM4002344	F-NT2RM4002344	0.87
15	NT2RM4002373	F-NT2RM4002373	0.41
	NT2RM4002374	F-NT2RM4002374	0.33
	NT2RM4002398	F-NT2RM4002398	0.94
	NT2RM4002409	F-NT2RM4002409	0.82
	NT2RM4002446	F-NT2RM4002446	0.61
20	NT2RM4002452	F-NT2RM4002452	0.47
	NT2RM4002457	F-NT2RM4002457	0.92
	NT2RM4002460	F-NT2RM4002460	0.61
	NT2RM4002482	F-NT2RM4002482	0.94
25	NT2RM4002493	F-NT2RM4002493	0.39
	NT2RM4002527	F-NT2RM4002527	0.64
	NT2RM4002534	F-NT2RM4002534	0.76
	NT2RM4002558	F-NT2RM4002558	0.62
30	NT2RM4002565	F-NT2RM4002565	0.54
	NT2RM4002571	F-NT2RM4002571	0.90
	NT2RM4002593	F-NT2RM4002593	0.91
	NT2RM4002594	F-NT2RM4002594	0.70
35	NT2RM4002623	F-NT2RM4002623	0.81
	NT2RP1000018	F-NT2RP1000018	0.31
	NT2RP1000035	F-NT2RP1000035	0.49
	NT2RP1000040	F-NT2RP1000040	0.45
40	NT2RP1000063	F-NT2RP1000063	0.90
	NT2RP1000086	F-NT2RP1000086	0.89
	NT2RP1000101	F-NT2RP1000101	0.76
	NT2RP1000111	F-NT2RP1000111	0.94
	NT2RP1000112	F-NT2RP1000112	0.45
45	NT2RP1000124	F-NT2RP1000124	0.94
	NT2RP1000130	F-NT2RP1000130	0.69
	NT2RP1000163	F-NT2RP1000163	0.90
	NT2RP1000170	F-NT2RP1000170	0.94
50	NT2RP1000174	F-NT2RP1000174	0.74
	NT2RP1000191	F-NT2RP1000191	0.76
	NT2RP1000202	F-NT2RP1000202	0.60
	NT2RP1000243	F-NT2RP1000243	0.81
55	NT2RP1000259	F-NT2RP1000259	0.79
	NT2RP1000272	F-NT2RP1000272	0.94